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PERSONAL.

Mr. John A. St. Louis has been appointed Water Register of Marlboro, Mass.

Mr. Albert T. Mabrey, Chief Engineer of the water-works and electric light plant at Smyrna, Del., has resigned.

Mr. Charles F. Quincy was elected President and Treasurer of the Q. & C. Co. at a recent meeting of the directors.

Col. John S. Kenyon, of Syracuse, N. Y., has been elected Secretary of the State Railroad Commission of New York.

Mr. Minard L. Holman, M. Am. Soc. C. E., Water Commissioner of St. Louis, Mo., has returned home from his European trip.

Mr. George A. Barclay, of the City Engineering Bureau, Pittsburg, Pa., was married Dec. 1, to Miss Mildred M. Johnson, of that city.

Mr. James C. King, First Vice-President, and Mr. Erskine M. Phelps, Second Vice-President of the Chicago City Ry., Chicago, Ill., have resigned.

Mr. John L. Berry has been elected President, and Mr. F. H. Low, Secretary and Treasurer, of the Knox & Lincoln R. R., with headquarters at Bath, Me.

Mr. H. T. Porter, Engineer of Maintenance of Way of the Pittsburg, Bessemer & Lake Erie R. R., with headquarters at Greenville, Pa., has been appointed Chief Engineer.

Mr. Francis Cushing Green, Jun. Am. Soc. C. E., formerly assistant to Mr. Rudolph Hering, M. Am. Soc. C. E., of New York, has gone with the Nicaragua Canal Commission to Greytown, Nicaragua.

Mr. Horace G. Burt, Third Vice-President of the Chicago & Northwestern Ry., with headquarters at Chicago, Ill., is reported to be the probable successor of Mr. S. H. H. Clark in the presidency of the Union Pacific System.

Mr. Arthur Powell Davis, Assoc. M. Am. Soc. C. E., of the U. S. Geological Survey, of Washington, D. C., has been detailed as hydrographer to the Nicaragua Canal Commission to assist in its examination of the proposed route of the canal.

Mr. John M. Savin, cashier of the Omaha, Kansas City & Eastern R. R., has been appointed Assistant General Manager and General Superintendent of the Kansas City, Pittsburg & Gulf R. R. The former road has been acquired by the latter, which has been reorganized.

Prof. Lewis M. Haupt, M. Am. Soc. C. E., who was recently appointed a member of the Nicaragua Canal Commission, was given a dinner, Dec. 1, by the Committee on Harbor and Navigation of the Trades League, Philadelphia, Pa., of which he is the chairman, in honor of his departure for Nicaragua.

Messrs. George S. Morison, Past President Am. Soc. C. E., of Chicago, Ill., and Howard A. Carson, M. Am. Soc. C. E., Chief Engineer of the Boston Transit Commission, Boston, Mass., have been appointed as the engineering experts, and Mr. James L. Wells has been appointed real estate expert by the Board of Rapid Transit Commissioners of New York city to consider the detailed plans and specifications for the construction of the underground railway in that city.

Mr. Henri A. Cardozo, mining and metallurgical engineer, of Paris, France, is visiting Baltimore, Md., for the purpose of inspecting the works of Keyser Brothers and the Maryland Steel Co., at Sparrow's Point. He is making investigations on behalf of the Musee Social of Paris, whose special representative he is, and will also visit the iron works and blast furnaces of Alabama, Tennessee and other states. He is a member of the Societe des Arts et Manufactures of France.

The Deep Waterways Commission, consisting of Major C. W. Raymond, Corps of Engineers, U. S. A., and Messrs. Alfred Noble and Geo. Y. Wisner, members Am. Soc. C. E., have the following engineers now engaged on the surveys which are being carried out under the commission's direction:

Discharge measurements, Niagara River: Mr. E. E. Haskell, Engineer in Charge; Mr. C. B. Stewart, Assistant Engineer; Surveys for the Niagara Ship Canal, Mr. C. L. Harrison, Engineer in Charge; Messrs. P. H. Ashmead, H. F. Dose, H. C. Goodrich and J. H. Brace, Instrumentmen; Mr. George A. Hammond, Superintendent of Borings. Surveys for the Oswego, Mohawk and Hudson Canal, Western Division; Mr. Albert J. Himes, Assoc. M. Am. Soc. C. E., Engineer in Charge; Messrs. S. E. Hark, F. A. Bagg, C. E. Curtis and E. Hilborn. Eastern Division: Mr. D. J. Howell, Engineer in Charge; Messrs. John McComb, E. C. Reynolds, C. E. Pelz and William B. Aberk, Instrumentmen; Mr. A. H. Breen, Superintendent of Borings.

Mr. Charles Sperry, formerly Chief Engineer of the Florida East Coast Hotel System and City Engineer of St. Augustine, Fla., has accepted the position of Superintendent and Engineer of the Key West Electric Light & Ry. Co., which is preparing to enlarge its lighting plant and rebuild and extend the street railway, operating its cars by electricity. Mr. Sperry was lately connected with the U. S. Engineer Corps, in charge of the construction of new fortifications at Key West, Fla.

OBITUARY.

Mr. John M. Mohler, contractor, of Mansfield, O., died Nov. 25, aged 55.

Mr. Forrest A. Coburn, Secretary of the Civil Engineers Club of Cleveland, O., died Dec. 1, in that city.

Mr. George W. Blouch, contractor and builder, of Buffalo, N. Y., committed suicide Dec. 3. He was 42 years of age. Mr. Blouch had been under medical treatment for a time.

Col. W. D. Chipley, President of the Pensacola & Atlanta R. R., Pensacola, Fla., died in Washington, D. C., Dec. 1, following an operation for carbunkle. He was a native of Alabama, and was about 60 years of age.

Mr. Samuel Frisbie, President of the Unionville Water Co., Unionville, Conn., died Dec. 6, aged 60. He was born in Southington, Conn., and for years was Treasurer and Manager of the Upson Nut Co., and Secretary of the Union Nut & Bolt Co.

Mr. David Warden Kirkpatrick, civil engineer, died in Pittsburg, Pa., this week, aged 40. He was formerly Superintendent for the Juragua Iron Co., Limited, Philadelphia, Pa., in Cuba, and while there contracted rheumatism, which caused his resignation and return to Pittsburg.

Mr. Thos. A. Reilly, who established the New Brunswick Foundry Co., New Brunswick, N.J., died of typhoid pneumonia Dec. 5, aged 44. He was formerly connected with the Walworth Gun Foundry Co., Cleveland, O., which he in time acquired and opened a branch in New Brunswick, later changing its name to the New Brunswick Foundry Co.

Mr. Wm. C. Hall, Engineer in Charge of the construction of the Metropolitan Water Board's basin at Southboro, Mass., died of pneumonia Dec. 6, aged 39. His wife died from the same disease Dec. 4. He was a graduate of Dartmouth College, Hanover, N. H., and for the past 12 years has been connected with the city engineering force of Boston.

Maj. Andrew Sigourney Bender, civil engineer, of San Francisco, Cal., died Dec. 5, aged 77. For six years he was Assistant Engineer at the Mare Island Navy Yard, and was in charge of the building of the Central Pacific R. R., from Stockton to Oakland, Cal. He designed the water-works and sewerage system of Honolulu, Sandwich Island.

Dr. Alonzo S. Kimball, M. Am. Inst., E. E., Professor of Physics and Electrical Engineering in the Worcester Polytechnic Institute, Worcester, Mass., died in that city, Dec. 2, aged 54. He was born in Center Harbor, N. H., and was graduated from Amherst College, Amherst, Mass., in 1866. He established the Departments of Physics and Electrical Engineering at the Worcester Polytechnic Institute, and for a number of years was a lecturer at Mount Holyoke College, Mount Holyoke, Mass. He was a member of the American Academy of Arts and Sciences, and was a frequent contributor to scientific publications.

Capt. W. A. Phillips, formerly Harbor Commissioner of San Francisco, Cal., died Nov. 26, aged 69. He was born in Belfast, Ireland, and learned the trade of a steam engineer in Glasgow, Scotland. He served through the Civil War in the U. S. Navy and retained this connection until 1868, when he resigned to enter the employ of the California, Oregon & Mexican Steamship Co. In 1871 he was appointed Superintendent of the Northern Transportation Co., which afterward became the Oregon R. R. & Navigation Co. He was appointed Harbor Commissioner of San Francisco in 1880, and in 1891 received the appointment of Inspector of Steam Vessels in the same port.

Mr. John Milton Kimball, General Agent of the Pennsylvania Lines West of Pittsburg, died at his home in Erie, Pa., Dec. 2, aged 70. He was born in Lowell, Mass., and entered the railway service in 1852 in the employ of the Boston & Lowell R. R. From 1857 to 1863 he was General Ticket Agent of the La Crosse & Milwaukee R. R., and from the latter date to 1865 was the Superintendent. In that year he was made Assistant General Superintendent of the Michigan Southern & Northern Indiana R. R., holding the position for one year, when he was appointed Assistant General Passenger Agent of the Pittsburg, Fort Wayne & Chicago, at Chicago. He was Superintendent of the Erie & Pittsburg R. R.; the Newcastle & Beaver Valley R. R., and the Pittsburg, Youngstown & Ashtabula R. R., from May, 1870, to April, 1895. In the latter year he was appointed to the position which he held at the time of his death.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

NORTHWESTERN TRACK AND BRIDGE ASSOCIATION.
Dec. 10. Secy., D. W. Meeker, St. Paul, Minn.

ST. LOUIS RAILWAY CLUB.
Dec. 10. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.

FRANKLIN INSTITUTE.
Dec. 10. "Organisms that Produce Tastes and Odors in Potable Water," Prof. A. R. Leeds; Dec. 14. "Speed Government in Water Power," Mark A. Replogle. Jan. 12. "The Electrolytic Production of Lead from Galena," Pedro G. Salom. Secy., Wm. H. Wahl, 15 S. Seventh St., Philadelphia, Pa.

THE NEW JERSEY SANITARY ASSOCIATION.
Dec. 10-11. Annual Meeting at Lakewood, N. J. Secy., James A. Exton, Arlington, N. J.

MONTANA SOCIETY OF ENGINEERS.
Dec. 11. Secy., Albert S. Hovey, Helena, Mont.

INDIANAPOLIS ENGINEERING CLUB.
Dec. 11. Secy., Edson F. Folsom, Indianapolis, Ind.

ENGINEERS' CLUB OF KANSAS CITY.
Dec. 13. Secy., F. W. Tuttle, Baird Bldg., Kansas City, Mo.

NORTHWEST RAILWAY CLUB.
Dec. 14. Secy., T. A. Foque, Soo Line, Minneapolis, Minn.

WISCONSIN POLYTECHNIC SOCIETY.
Dec. 14. Secy., W. K. Means, Loan & Trust Building, Milwaukee, Wis.

WESTERN FOUNDRYMEN'S ASSOCIATION.
Dec. 15. Secy., A. Sorge, Jr., 1020 Monadnock Block, Chicago, Ill.

ENGINEERS' AND ARCHITECTS' ASSOCIATION OF SOUTHERN CALIFORNIA.
Dec. 15. Secy., Frank H. Olmstead, Los Angeles, Cal.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Dec. 15. "Rope Driving," T. Spencer Miller. Secy., C. W. Hunt, 127 E. 23rd St., New York city.

ENGINEERS' CLUB OF ST. LOUIS.
Dec. 15. Secy., Richard McCulloch, St. Louis, Mo.

BOSTON SOCIETY OF CIVIL ENGINEERS.
Dec. 15. "The Erection of Metallic Bridges," Frank P. McKibben. Secy., S. E. Tinkham, 715 Tremont Temple, Boston, Mass.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
Dec. 15. Secy., R. W. Pope, 26 Cortlandt St., New York.

SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.
Dec. 16. Secy., F. A. Charpiot, Macon, Ga.

NEW YORK RAILROAD CLUB.
Dec. 16. Secy., W. W. Wheatly, 168 Montague St., Brooklyn, N. Y.

ENGINEERS' CLUB OF CINCINNATI.
Dec. 16. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.

CHICAGO ELECTRICAL ASSOCIATION.
Dec. 17. "Electricity in Shipbuilding," C. C. Mattison. Secy., J. R. Cravath, 825 Monadnock Block, Chicago, Ill.

ENGINEERS' CLUB OF COLUMBUS.
Dec. 18. Secy., M. S. Hopkins, 14½ N. High St., Columbus, O.

THE ENGINEERS' CLUB OF PHILADELPHIA.
Dec. 18. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.

TECHNICAL CLUB OF OMAHA.
Dec. 20. Secy., J. Harry Lawrie, Omaha, Neb.

ENGINEERS' CLUB OF MINNEAPOLIS.
Dec. 20. Secy., Elbert Nexsen, 1620 S. E. 4th St., Minneapolis, Minn.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Dec. 21. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

WESTERN RAILWAY CLUB.
Dec. 21. Secy., F. M. Whyte, 225 Dearborn St., Chicago, Ill.

ENGINEERING ASSOCIATION OF THE SOUTH.
Dec. 23. Secy., L. P. Brown, Nashville, Tenn.

MICHIGAN ENGINEERING SOCIETY.
Dec. 28-30. Annual convention Port Huron, Mich. Secy., F. Hodgman, Climax, Mich.

CIVIL ENGINEERS' SOCIETY OF ST. PAUL.
Jan. 3. Secy., C. L. Annan, City Engineers' Office, St. Paul, Minn.

ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Jan. 3. Secy., H. J. March, Library Bldg., Buffalo, N. Y.

WESTERN SOCIETY OF ENGINEERS.
Jan. 5. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.

CANADIAN SOCIETY OF CIVIL ENGINEERS.
Jan. 6. Secy., C. H. McLeod, 112 Mansfield St., Montreal, Canada.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
Jan. 7. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.

IOWA ENGINEERING SOCIETY.
Jan. 19. Annual meeting, Cedar Rapids, Mich. Secy., Seth Dean, Glenwood, Ia.

AMERICAN SOCIETY OF HEATING AND VENTILATING ENGINEERS.—The annual convention of this society will be held at 12 W. 31st St., New York, Jan. 25-27. Several excellent papers have been promised and a successful meeting is expected.

NATIONAL ELECTRIC LIGHT ASSOCIATION.—The executive committee of this association held a meeting at the Holland House, New York, Nov. 22, and selected Chicago as the place for the 1898 convention. The date was not fixed, but it will probably occur some time in June.

ENGINEERS' SOCIETY OF WESTERN NEW YORK.—This society held its annual banquet Dec. 6. The following were elected officers for the ensuing year: President, W. C. Johnson; Vice-President, Henry Vier; Treasurer, Geo. Bassett; Secretary, H. J. March; Librarian, C. H. Sutton; Director, J. Vander Hoek. H. J. March, Secy.

AMERICAN FOUNDRYMEN'S ASSOCIATION.—Strong efforts were recently made by the foundrymen of Cincinnati and various organizations of that city to have the next annual convention held there. Pittsburg submitted an urgent invitation. Both were referred to the executive committee, which, after a careful consideration, named Cincinnati.

THE BROOKLYN ENGINEERS' CLUB.—The first annual dinner of the Brooklyn Engineers' Club was held Dec. 3 at the Clarendon Hotel, Brooklyn, N. Y. About 100 members and guests attended. The toast list was as follows: "Good Fellowship Among Engineers," J. C. Meem; "Corps d'Esprit of the Profession," Peter Milne; "The Engineer Among Business Men," C. L. Hastings; "The Municipal Engineer," G. W. Tillson; "What We Work For," R. J. Beach, and "The Engineers' Club," Joseph Strachan. After the banquet the reports of the retiring officers were listened

to and the officers for the ensuing year were elected, as follows: Pres., Nelson P. Lewis; Secy., A. J. Provost, Jr.; Treas., William G. Ford.

THE CANADIAN NIAGARA POWER LEAGUE.—This is a new association organized Nov. 10 at Niagara Falls Ontario, for the purpose of furthering the development of the water power available on the Canadian side of the Niagara River. Fully 200 names were signed to the roll, while the following officers were selected for the ensuing year: President, J. F. Macklem; Vice-Presidents, R. P. Slater, C. C. Cole, F. E. Dalton, E. Norden, J. H. Pew, J. D. Hazlett, and S. J. Sidey; Secy. and Treas., F. W. Hill.

WESTERN SOCIETY OF ENGINEERS.—At the meeting on Dec. 1, no paper was presented, but a short time was devoted to general discussion. One member suggested changing the scale of the Fahrenheit thermometer to make zero the freezing point. Mr. Johnston made some remarks on cement testing and described a hot test used by Dr. Prussing, in which a cylindrical cake or briquette is heated to 180° C with a Bunsen burner, and then slowly cooled by dropping water upon it.

THE ENGINEERS' CLUB OF PHILADELPHIA.—At the meeting on Nov. 20, it was announced that a special committee, with Mr. W. C. L. Eglin as chairman, had been appointed to make arrangements for a dinner to be held Dec. 17 upon the 20th anniversary of the organization of the club. Owing to the date of the next regular meeting coming on Jan. 1, the president was requested to call a substitute meeting on Jan. 8.

Prof. Walter L. Webb presented the paper of the evening entitled "The Mass Curve in Earthwork Computations," and described, by the aid of lantern illustrations, the diagramatic method of using the mass curve and making computations for grading in earthwork. This and other graphical methods of calculation were afterwards discussed.

CHICAGO ELECTRICAL ASSOCIATION.—At the meeting on Dec. 3, with the President, Mr. S. G. McMeen, in the chair, a paper on "Heavy Electric Traction" was read by Mr. Cloyd Marshall. In this paper the author considered mainly the application of electric traction to elevated railways, interurban surface lines, and the suburban service of steam railways. Considerable attention was paid to the Sprague system of electric traction recently adopted by the South Side Elevated R. R., of Chicago, in which every car is a motor. The cars now being hauled by steam locomotives are gradually being fitted with the electrical equipment, including new McGuire trucks, with a 50-HP. motor on each trunk, while each platform of the car is fitted with a motorman's vestibule or compartment, which can be folded back out of the way when the car is used only as a trail car. Five of these cars are now in experimental service on the Metropolitan West Side Elevated R. R.

The trolley system was not considered advisable for speeds of over 40 miles per hour. A protected third-rail system described in the paper had an L-shaped conductor (with its horizontal flange uppermost) secured to short vertical posts held in iron shoes on the ends of the ties. An L-shaped block of insulating material is placed between the conductor and the post, and on top of the posts is an inclined roof sloping towards the rail and extending beyond the conductor. A contact piece on an arm attached to the car runs on the underside of the horizontal flange of the conductor.

NEW PUBLICATIONS.

COMMISSIONER OF EDUCATION.—Report for the year 1895-6. Vol. 2, Part II. Wm. T. Harris, Commissioner. Cloth; 8vo.; pp. 967 to 2,173. Pub. Doc.

Among other things this volume contains a continuation from the previous report of the discussion on agricultural and mechanical colleges in the United States, and a revised list of such institutions. The last report was noted in our issue of Nov. 4, 1897. This volume contains a discussion and descriptions of manual training schools in this country and abroad.

REPORT OF THE SURGEON-GENERAL, U. S. NAVY, Chief of the Bureau of Medicine and Surgery, to the Secretary of the Navy, for the year 1896. J. C. Boyd, Acting Chief of Bureau. Paper; 6×9 ins.; pp. 221; tables. Pub. Doc.

The sanitary conditions and appliances of the naval stations and vessels of the United States are described more or less fully in this report. Among a number of special papers in the volume is one of interest on "The Practical Disinfection of Ships of War," by Thos. C. Craig, Surgeon U. S. N., Retired.

LA INGENIERIA.—Organo Official del Centro Nacional de Ingenieros. Publicacion Mensual. Redactor Principal, Ingeniero Manuel A. Villa, Secretario, Ingeniero Carlos Wauters, Buenos Aires, Agostos de 1897. Ano 1, Num. 1. Subscription for Argentine Republic, $12 silver; foreign subscription, $5 gold.

This is a new monthly publication of matters interesting to South American engineers, and it is the official organ of what may be called the Engineers Society of South America. The principal contributions to the present number are as follows: "Floods in the Southern Zone of Buenos Aires;" "The Railway from Buenos Aires to Rosario;" "The Project for a New Building for the Faculty of Derecho" (illustrated); "Central Stations for Railways;" "The Arch-invert in the Dry Docks at Buenos Aires and Experiments upon Them;" "Acetylene Gas and Its Regulation;" "Bibliography and Technical Notes." The publication is a neatly printed monthly, with 16 pages of reading matter, and a long list of engineer assistant editors and correspondents. The chief illustrations are upon inset sheets.

CLASSIFIED CIVIL SERVICE.—Schedule of Examinations and Instructions to Applicants. Revised to July 1, 1897. Washington, Government Printing Office. Paper; 9×6 ins.; pp. 116. Address Civil Service Commission, Washington, D. C.

These rules and the reports of the commission can be obtained at the principal public libraries throughout the country; or they can be obtained from the commission at Washington. The contents are made up of the schedule of examinations; general information to applicants; general information to competitors; service and examination and specimen examination questions applying to all grades of the classified civil service.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3 1-2 x 6 ins.; 6 x 9 ins., and 9 x 12 ins.)

WIRE ROPE TRAMWAYS.—Trenton Iron Co., Trenton, N. J. Cloth; 6×8 ins.; pp. 38; illustrated.

This pamphlet illustrates and describes in considerable detail the construction and operation of the Bleichert system of wire rope tramways manufactured by the company named. The first part of the book describes the general system and gives details of the cables, couplings, grips, carriages, towers, etc., and the second part describes a number of typical plants which have been built in various parts of the United States. The engineer who wishes to post himself in a general way regarding this well known ropeway system can do no better than to obtain a copy of this book.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Dec. 9.	Filtration tanks (19),	Cincinnati, O.	Dec. 2
Dec. 9.	Main sewers, etc.,	Brooklyn, N. Y.	Dec. 2
Dec. 9.	Gravel roads,	Vevay, Ind.	Dec. 2
Dec. 9.	Shore road,	Brooklyn, N. Y.	Dec. 2
	Advertised, Engineering News, Dec. 2.		
Dec. 9.	Grading, etc.,	Baltimore, Md.	Dec. 2
Dec. 9.	Supplies,	Toronto, Ont.	Nov. 25
Dec. 9.	Cleaning boulevard, etc.,	Jersey City, N. J.	Dec. 9
Dec. 10.	Canal improvements,	Oswego, N. Y.	Dec. 9
Dec. 10.	Electric lighting,	Savannah, Ga.	Dec. 9
Dec. 10.	Electric light plant,	Cumberland, Md.	Nov. 25
Dec. 10.	Interior bldg work,	Washington, D. C.	Nov. 25
Dec. 10.	Stone,	Gray's Harbor, Wash.	Nov. 18
	Advertised, Eng. News, Nov. 18 to Dec. 2.		
Dec. 10.	Building repairs,	New York, N. Y.	Dec. 2
Dec. 10.	Repairing fire engines,	New York, N. Y.	Dec. 2
Dec. 10.	Electric light bonds,	La Grange, Mo.	Dec. 2
Dec. 10.	Fire engine house,	Lancaster, O.	Dec. 2
Dec. 10.	Ship repairs,	New York, N. Y.	Dec. 2
Dec. 11.	Sewer,	Ashtabula, O.	Dec. 2
	Advertised, Engineering News, Dec. 2.		
Dec. 11.	Retaining wall,	Cincinnati, O.	Nov. 25
Dec. 11.	Grading,	Bethel, Conn.	Dec. 9
Dec. 11.	Steel vault fixtures,	Pittsburg, Pa.	Dec. 9
Dec. 13.	Brick sewers,	Syracuse, N. Y.	Dec. 9
Dec. 13.	Grading, etc.,	New York, N. Y.	Dec. 9
Dec. 13.	Asphalt paving,	New Orleans, La.	Dec. 9
Dec. 13.	Oil and gas lighting,	Jersey City, N. J.	Dec. 9
Dec. 13.	Courthouse bonds,	St. Joseph, Mo.	Dec. 9
Dec. 13.	Grading and paving,	Brooklyn, N. Y.	Dec. 9
Dec. 13.	Pipe sewers,	Fort Dodge, Ia.	Dec. 9
Dec. 13.	Water pipe, etc.,	New York, N. Y.	Dec. 9
Dec. 13.	Sewers,	New York, N. Y.	Dec. 9
Dec. 13.	Sweeping, cleaning, etc.,	Jersey City, N.J.	Dec. 9
Dec. 13.	Dredging,	Montgomery, Ala.	Nov. 25
	Advertised, Eng. News, Nov. 25 to Dec. 9.		
Dec. 13.	Electric light franchise,	Somerset, Ky.	Oct. 7
	Advertised, Eng. News, Oct. 7 to 21.		
Dec. 13.	Court house bonds,	Grant City, Mo.	Dec. 2
Dec. 13.	Stone walk,	Montclair, N. J.	Dec. 2
Dec. 13.	Laying water pipe,	Lebanon, Pa.	Dec. 2
Dec. 14.	Church building,	Portsmouth, Va.	Dec. 2
Dec. 14.	Steel bridge,	Olivet, S. Dak.	Dec. 2
Dec. 14.	Bridge substructure,	Birmingham, Pa.	Dec. 2
Dec. 14.	Brick and pipe sewers,	St. Louis, Mo.	Dec. 2
Dec. 14.	Brick paving,	Waukesha, Wis.	Nov. 11
Dec. 14.	Recreation building enclosure,	New York	Dec. 9
Dec. 14.	Hospital buildings,	New York, N. Y.	Dec. 9
Dec. 14.	Work and materials,	Rich Hill, Mo.	Dec. 9
Dec. 14.	Rip-rap stones, etc.,	New York, N. Y.	Dec. 9
Dec. 14.	Bonds,	New York, N. Y.	Dec. 9
Dec. 14.	Hall of Records,	New York, N. Y.	Dec. 9
	Advertised, Engineering News, Dec. 9.		
Dec. 14.	School buildings,	St. Louis, Mo.	Dec. 9
Dec. 14.	Macadamizing,	Monticello, Ind.	Dec. 9
Dec. 15.	Trunk sewer,	Cincinnati, O.	Dec. 9
Dec. 15.	Asphalt paving,	New York, N. Y.	Dec. 9
Dec. 15.	Grading,	Stratford, Conn.	Dec. 9
Dec. 15.	Grading,	Thomaston, Conn.	Dec. 9
Dec. 15.	Repaving,	Brooklyn, N. Y.	Dec. 9
Dec. 15.	Fire engines (2),	New York	Dec. 9
Dec. 15.	Electric conduits,	New York, N. Y.	Dec. 9
Dec. 15.	Tower and water tank,	Hope, Ark.	Dec. 9
	Advertised, Engineering News, Dec. 9.		
Dec. 15.	Regulating, grading, etc.,	New York, N. Y.	Dec. 9
Dec. 15.	Dredging,	Lake Drummond Va.	Dec. 9
	Advertised, Engineering News, Dec. 9.		
Dec. 15.	Sewers,	New York, N. Y.	Dec. 9
Dec. 15.	Removing garbage, etc.,	Elizabeth, N. J.	Dec. 9
Dec. 15.	Plans for hall,	Torrington, Conn.	Dec. 9
Dec. 15.	Brick building,	Hartford City, Ind.	Nov. 18
Dec. 15.	Improving grounds,	Charleston, S. C.	Dec. 2
	Advertised, Eng. News, Dec. 2 and 9.		
Dec. 15.	Plumbing and painting,	Hoboken, N. J.	Dec. 2
Dec. 16.	Repair of streets,	Cincinnati, O.	Nov. 25
Dec. 16.	Street bonds,	St. Bernard, O.	Nov. 25
Dec. 16.	Pipe sewers,	Buffalo, N. Y.	Dec. 9
Dec. 16.	Water bonds,	Brooklyn, N. Y.	Dec. 9
Dec. 17.	Brick sewer,	St. Louis, Mo.	Dec. 9
Dec. 17.	Valve, air chamber, etc.,	Dayton, O.	Dec. 9
Dec. 17.	Grading, etc.,	Newport News, Va.	Dec. 2
Dec. 20.	Naphtha lights (175),	Binghamton, N. Y.	Dec. 2
	Advertised, Eng. News, Dec. 2 and 9.		
Dec. 20.	Wooden or steel bridge,	Hardinsburg, Ky.	Dec. 2
Dec. 20.	Chains and clevises,	Charleston, W. Va.	Nov. 25
	Advertised, Eng. News, Nov. 25 to Dec. 16.		
Dec. 20.	Steam heating plant,	Jamestown, N. Dak.	Dec. 2
Dec. 20.	Bridge superstructures (5),	Chicago, Ill.	Nov. 18
	Advertised, Eng. News, Nov. 18 to Dec. 9.		
Dec. 20.	Electric light plant,	Donaldsonville, La.	Dec. 9
Dec. 20.	Electric power station,	Sheridan, Ind.	Dec. 9
Dec. 20.	Fire hydrants (52),	Lebanon, Pa.	Dec. 9
	Advertised, Engineering News, Dec. 9.		
Dec. 20.	Iron vault doors, etc.,	Milwaukee, Wis.	Dec. 9
	Advertised, Eng. News, Dec. 9 and 16.		
Dec. 20.	Brick sewers,	Toledo, O.	Dec. 9
Dec. 20.	Court house,	New York, N. Y.	Dec. 9
Dec. 20.	Court house,	San Bernardino, Cal.	Dec. 9
Dec. 21.	Electric wiring, etc.,	P. O. Bldg., Saginaw	Dec. 9
Dec. 21.	Purchase of water-works, etc.,	Para, Brazil	Dec. 9
Dec. 21.	Building,	Indianapolis, Ind.	Dec. 2
Dec. 22.	Machine shop,	Key West, Fla.	Dec. 2
Dec. 22.	Grading and paving,	Cincinnati, O.	Dec. 2
Dec. 22.	Cleaning paved streets,	Cleveland, O.	Dec. 2
Dec. 22.	Bridge substructure,	Chicago, Ill.	Oct. 21
	Advertised, Engineering News, Oct. 21.		
Dec. 22.	Bridges (3),	Chicago, Ill.	Nov. 11
	Advertised, Eng. News, Nov. 11 to Dec. 2.		
Dec. 22.	Court house,	Hays City, Minn.	Dec. 9
Dec. 22.	Oil house,	Buffalo, N. Y.	Dec. 9
Dec. 23.	Electric light plant,	Fort Monroe, Va.	Dec. 2
	Advertised, Eng. News, Dec. 2 and 16.		
Dec. 24.	School building,	Houston, Tex.	Dec. 2
Dec. 27.	Pipe sewers (3½ miles),	Shelby, O.	Dec. 2
	Advertised, Eng. News, Dec. 2 and 9.		
Dec. 27.	Canal,	Monterey, Mexico.	Dec. 2
Dec. 27.	Asphalt paving,	Wabash, Ind.	Dec. 2
Dec. 27.	Sewerage bonds,	Hamilton, O.	Dec. 9
Dec. 29.	Superstructure, etc.,	Cincinnati, O.	Dec. 2
Dec. 29.	Bridge superstructure,	Chicago, Ill.	Nov. 4
Dec. 30.	Electric light plant,	Washington, D. C.	Dec. 9
Dec. 31.	Railway concession,	Brazil	Nov. 18
Dec. 31.	Bridge,	Valparaiso, Ind.	Dec. 2
1898.			
Jan. 1.	Addition to jail,	Marinette, Wis.	Dec. 9
Jan. 1.	Building,	Becton, Ont.	Dec. 9
Jan. 1.	Arc lights (70),	Fort Smith, Ark.	Dec. 9
Jan. 3.	Brick paving,	Toledo, O.	Dec. 9
Jan. 5.	Buoys, chain, etc.,	Tompkinsville, S.I., N.Y.	Nov. 11
Jan. 8.	Plans for water-works,	Belper, England	Nov. 18
Jan. 10.	Bridge approaches,	Hot Springs, Ind.	Nov. 25
Jan. 10.	Heating, etc.,	Rock Island, Ill.	Nov. 25
Jan. 11.	Steam propeller,	Washington, D. C.	Nov. 25
Jan. 26.	Court house,	Decatur, Ga.	Dec. 9
Jan. 26.	Government armor factory,	Washington, D.C.	Dec. 9
Feb. 10.	Library,	Pt. Elizabeth, Cape Good Hope	Nov. 25
July 1.	Water power,	Madras, India	Oct. 28
No date.	Railway ties,	Houston, Tex.	Dec. 9

RAILWAYS.

AROOSTOOK NORTHERN.—Albert A. Burleigh, Houlton, Me., informs us that this line, between Caribou and Limestone, via Fort Fairfield, Me., a distance of 15½ miles, was completed Dec. 1. The road has been leased to the Bangor & Aroostook, and trains have commenced to run. H. R. Cushing, Ch. Engr., Houlton.

ATLANTA & DANVILLE.—Chas. O. Haines, Gen. Mgr., Norfolk, Va., informs us that contrary to current reports this company does not contemplate the construction of an extension of its line in Granville county.

ATLANTIC & NORTH CAROLINA.—It is reported that this company has signified its willingness to construct an extension of its line to Snow Hill, N. C., provided the town will do the grading and furnish the cross-ties. Pres., Robert Hancock, Newbern, N. C.

BATON ROUGE & CENTRAL LOUISIANA.—Reports state that this company will soon advertise for ties for the lower part of its proposed railway to terminate on the west side of the Mississippi River, near Baton Rouge, La. The contracts for grading have not yet been awarded. Pres., F. M. Welch.

CANADIAN PACIFIC.—Press reports quote Sir W. C. Van Horne, Pres., Montreal, Que., as saying that this company will build a road of its own to Rossland, B. C., the work to be pushed as rapidly as possible. P. A. Peterson, Ch. Engr., Montreal, Que.

CATSKILL & TANNERSVILLE.—Press reports state that because of the refusal of the Kaaterskill R. R. to enter into a traffic arrangement for 1896 the shareholders of the Otis Elevating R. R. Co., the Catskill Mountain Ry. Co. and of this company, have decided to extend the latter's railway from Kaaterskill station to Tannersville. C. L. Beach, Vice-Pres. Catskill Mountain Ry., Catskill, N. Y.

CHICAGO & NORTHWESTERN.—The council of Chicago, Ill., Dec. 2, passed an ordinance providing for the elevation of the tracks of this railway company within this city. Works must be commenced on or before May 1, 1898, and completed within two years. J. E. Blunt, Ch. Engr., Chicago.

CHICAGO, INDIANAPOLIS & LOUISVILLE.—Ferd Hall, Ch. Engr., 193 Custom House Place, Chicago, Ill., informs us that surveys will be completed within the next two weeks for proposed lines of track from Clear Creek, Ind., to the different quarries in Monroe county. If built, it will be as much for the purpose of reducing grades between Harrodsburg and Clear Creek as for any other purpose. It is not probable that any line will be built at present.

CHICAGO, MILWAUKEE & ST. PAUL.—The council of Chicago, Ill., Dec. 2, passed an ordinance providing for the elevation of this company's tracks in this city. Together with the proposed elevation of the Chicago & Northwestern Co.'s tracks, 12 miles will have to be raised above grade at an estimated cost of $3,200,000. D. J. Wittemore, Ch. Engr., Chicago.

CROW'S NEST PASS.—Reports state that grading on this proposed branch of the Canadian Pacific Ry. has been completed from Lethbridge to the Crow's Nest Pass, 104 miles distant, and that 50 miles of track has also been laid. This company now contemplates the construction of a line between Minnehaha Lake and Upper Manitoba Lake, and one from Cedar Lake to Manitou Sound. P. A. Peterson, Ch. Engr., Montreal, Que.

FINDLAY, FORT WAYNE & WESTERN.—A new trunk line, which will be an eastern outlet for the Illinois Central R. R., is to be established from Illinois direct east through Indiana and Ohio. In order to accomplish this purpose, this railway, which at present runs from Findlay, O., to Fort Wayne, Ind., 80 miles, will be extended east and west. From Fort Wayne the line will be extended to Kankakee, Ill., and from Findlay extensions will be made to Lester Junction, O., where connections can be had with Cleveland and all points east. Among those interested are: John J. Astor, Pres., Findlay, Fort Wayne & Western Ry., New York; and Daniel Sloan, Ch. Engr., Illinois Central R. R., Chicago, Ill.

KANSAS CITY, EXCELSIOR SPRINGS & NORTHERN.—This company has been incorporated in Missouri with a capital stock of $100,000 to construct a railway between Excelsior Springs Junction and Excelsior Springs, Mo., a distance of 10 miles. The incorporators are: Breckenridge Jones, Erastus L. and E. I. Moore, S. D. Henry, Frank Hagerman and Edward C. Wright.

KANSAS CITY, WATKINS & GULF.—Reports state that this company will extend its line from Lake Charles, La., to Sabine Pass, Tex., a distance of about 50 miles. F. H. Philbrick, Ch. Engr., Pineville, La.

LANSING, ST JOHNS & ST. LOUIS.—This company is being organized, according to reports, to construct a railway from Lansing to St. Louis, Mich., via De Witt, St. Johns, Maple Rapids, and Ithaca, a distance of 50 miles.

MATAMORAS & NEW YORK.—This company was incorporated in New York, Dec. 7, with a capital stock of $50,000, to operate a railway three-fourths of a mile in length from a point on the Delaware River near Matamoras, Pa., to Port Jervis, N. Y. The directors are: A. E. Lethbridge, Brooklyn, N. Y.; E. Monthmont, Milford, N. Y.; L. H. Smith, P. Q. Deyo, J. G. Hillyard, E. C. Harbordt, F. F. Sargent, J. H. Thompson, Jr., and Charles M. Clark, New York.

MISSOURI, KANSAS & TEXAS.—Press reports state that an extension of this line, between Parsons, Kan., and Joplin, Mo., is now being surveyed. S. B. Fisher, Ch. Engr., St. Louis, Mo.

PENNSYLVANIA.—Press reports state that this company will shortly begin the construction of a third track between Altoona and Gallitzin, Pa. The work will give employment to several thousand men and will cost nearly $500,000. The project will necessitate the digging out of many new cuts and the widening of several culverts. W. H. Brown, Ch. Engr., Philadelphia, Pa.

POTOMAC SHORT LINE.—We are informed that this company was chartered for the purpose of building a road from the Baltimore & Ohio R. R., in Morgan county, W. Va., to the southern side of the Potomac River, a distance of only a few rods. Those who obtained the charter have an interest in a quarry of hydraulic cement rock on the northern side of the river, from which they intend to manufacture cement, and the only practicable way of shipment would be by the Baltimore & Ohio. The owners of the strip of ground between the railroad and the river, own also the Round Top Cement Works, about a mile higher up the river, and will not sell a right of way over this strip of ground on any terms; but having obtained the charter for the railroad, it is expected to obtain the right of way by condemnation proceedings in court, and then the railroad company will build the few rods of necessary track. M. T. Ingles, Martinsburg, W. Va.; and T. H. B. Dawson, Berkeley Springs, W. Va., are among those interested.

RICHMOND, PETERSBURG & CAROLINA.—About 40 miles of this proposed railway have been surveyed, and track laying will probably be commenced soon. Pres., De Witt Smith, 50 Broadway, New York, N. Y.

RICHMOND, NICHOLASVILLE, IRVINE & BEATTYVILLE.—Reports state that Adolph Segal, of Philadelphia, Pa., who purchased this line Oct. 11, has arranged for an extension to Beattyville and Pikeville, Ky.

ST. LOUIS, MANSFIELD & AVA SOUTHERN.—It is announced that work on this new line will begin immediately, as surveys have all been completed. F. O. Hadley, Springfield, O., has charge of the construction work.

SAN ANTONIO, LLANO & NORTHERN.—This company was incorporated in Texas, Nov. 27, to construct a railway from Strawn to Comanche, Tex., a distance of about 50 miles; capital stock, $300,000. Among the incorporators are: J. M. Presler, L. B. Russell, J. F. McCarty and W. W. Johnson.

SANFORD & CAPE PORPOISE. — Press reports state that the Maine railroad commissioners have approved the location of this projected railway, from Sanford to Cape Porpoise, Me., a distance of about 18 miles.

SHREVEPORT & RED RIVER VALLEY.—It is reported that Wymbush & Co., and Hunter Bros. & Co., of Shreveport, La., have contracts for constructing portions of this proposed line. Surveys have been made for about 30 miles of the distance and grading for about 20 miles. Vice-Pres., G. W. Fouke, Texarkana, Tex.

SOUTHERN PACIFIC.—Bids are asked, according to reports, for constructing an extension of this line from St. Martinsville to Arnaudville, La., a distance of about 25 miles; surveys have been made. There will be but little heavy work and only 600 ft. of trestle required. J. T. Mahl, Engr., Houston, Tex.

SUSQUEHANNA & WESTERN.—F. H. Alleman, Ch. Engr., Steelton, Pa., informs us that this company, which was incorporated in Pennsylvania Nov. 19, is now making surveys for the proposed steam railway between Riverton and Mechanicsburg, Pa., a distance of 7 miles.

SPRINGFIELD, LITTLE ROCK & GULF.—Press reports state that all financial arrangements have been perfected with New York capitalists for the construction of this projected railway from Springfield, Mo., to Little Rock, Ark., and that work will begin at the latter place on Dec. 15. Pres., J. A. Hiney; Ch. Engr., P. J. Dougherty, Springfield, Mo.

WINONA & WESTERN.—Reports state that this railway will be extended from Osage to Mason City, Ia., a distance of 25 miles. Pres., H. W. Lamberton, Winona, Minn.

STREET AND ELECTRIC RAILWAYS.

NORWOOD, MASS.—The Norfolk Southern St. Ry. Co. was organized in Boston, Mass., Dec. 1, to construct a new line from Norwood through Walpole and Foxboro to Mansfield, a distance of about 17 miles. Boston will thereby have trolley connection with Providence, New Bedford, Fall River, Attleboro, Brockton and Taunton, making the Norfolk Southern a most important connecting link. At a meeting of the directors the following officers were elected: Pres., Frederick S. Lane; Vice-Pres., John C. Lane; Clk. and Treas., Edward F. Draper. The present Boston headquarters of the company are at Room 914, Exchange Bldg.

MIDDLETOWN SPRINGS, VT.—A company has been organized at this place to construct an electric railway from Middletown to Rutland, via Poultney, Fair Haven, Hydesville and Castleton. It is proposed to issue $300,000 in capital stock and to dispose of the same in time to commence constructing the road next summer. Partial surveys have already been made. The officers are: Pres., J. F. Pearson; Vice-Pres., F. C. Kennedy; Treasurer, J. J. Flynn, all of Burlington.

JAMAICA (L. I.), N. Y.—The village board of trustees has granted a franchise to the Cross Country R. R. Co. to construct its proposed trolley line upon Cumberland St., Brown Ave. and State St., across the Rockaway Road to the village line.

LINOLEUMVILLE (S. I.), N. Y.—Reports state that this town has petitioned the Staten Island Electric Ry. Co. for an extension of its line from Bull's Head to this place. H. J. Quigg, Gen. Mgr., York Ave. and Richmond Terrace, New Brighton (S. I.).

NEW YORK, N. Y.—It is reported that the Manhattan Elevated Ry. Co. is planning for important changes in its terminal facilities at 3d Ave. and 129th St., and also for the construction of a third track on the 3d Ave. road, and a possible loop in 23d St. connecting the east and west lines. W. J. Fransioli, Gen. Mgr., 71 Broadway.——Application has been made to the board of public works for permission to construct a horse-car line on Wall, Pine, Liberty, Cortlandt and Williams Sts., and Maiden Lane, according to a franchise granted in 1885, to the Fulton, Wall St. & Cortlandt St. Ferries R. R. Co. The capital stock of the company is stated to be $700,000, and the directors named at the incorporation of the company in 1885 are: John S. Foster, Gilbert M. Speir, Jr., C. E. Loew, E. D. Conover, John Keenan, H. S. Beattie and Edward Kearney, all of New York. Pres., Edward Selleck, 45 William St.; Secy., B. Franklin De Freece.

NYACK, N. Y.—We are informed that the Nyack Traction Co., recently organized, has been granted a franchise by this village. Application has been made for a franchise in South Nyack, and will probably be granted; one may also be granted in the village of Piermont, but the most desirable portion which willl be asked for, that between South Nyack and Piermont, will probably be denied by the highway commissioners.

ONEONTA, N. Y.—Work has begun on the Oneonta & Otego Electric Ry., to run from Oneonta to West Oneonta, and eventually to Richfield Springs. Eight miles of track will be laid by Jan. 1.

WATERTOWN, N. Y.—The Watertown & Brownville Electric St. Ry. was sold to J. A. Leobkencher, of Newark, N. J., on Nov. 27. It is said that improvements will be made at once.

CAMDEN, N. J.—It was announced Dec. 7 that the Pennsylvania R. R., after experimenting for two years with electricity as a motive power for its small side lines, has decided in its favor. It is said the branch lines running from the Amboy division will be the first equipped with the new system, and that similar branches from the other divisions will be equipped as soon as possible.

FREEHOLD, N. J.—It is reported that a trolley line will probably be built from Freehold to Long Branch, via Mattawan and Keyport, with an extension to Belford, where it will connect with the line now running from Eatontown to Long Branch.

PERTH AMBOY, N. J.—The Perth Amboy & Sewaren Electric St. Ry. Co., of this place, was incorporated Dec. 4, with a capital stock of $25,000, to construct and operate a street railway in this city. The incorporators are: Cassimer W. Boynton, Woodbridge, N. J.; Henry Maurer and Robert W de Forest, New York, N. Y.; Garret Brodhead, Patrick Convery, C. Whitman Boynton, Jr., and John Pfeiffer, Jr., Perth Amboy.——The Brunswick Traction Co., which has recently extended its tracks from New Brunswick to Metuchen, has also applied to the board of aldermen for a franchise to operate a trolley line within the city limits. Action will be taken upon the application on Dec. 20. E. Radel, Pres. Brunswick Traction Co., New Brunswick, N. J.

STOCKTON, N. J.—The council granted permission, Nov. 30, to the Camden & Suburban Ry. Co. to lay tracks on the River Road from Cooper's Ave. to the Tollgate Road. W. E. Harrington, Gen. Mgr., 307 Market St., Camden, N. J.

TRENTON, N. J.—The Pennington Ave. Passenger Ry. Co. has petitioned the council for a franchise to construct an electric railway in this city.

ERIE, PA.—Reports state that the Meadville & Edinboro St. Ry. Co. contemplates extending its line to this city. Pres., John W. Shyrock.

PALO ALTO, PA.—The Schuylkill Electric Ry. Co. has been granted a franchise to operate an electric line in this city.

WILMINGTON, DEL.—It is announced that work has begun in the Wilmington & Brandywine Springs Electric Ry. for the construction of which Jacobs & Vandegrift, of Philadelphia, have been awarded the contract.

ROANOKE, VA.—The Roanoke Street Ry. Co. has purchased a site on the Roanoke River and contemplates changing its plant from steam to water power. S. W. Jamison, Gen. Mgr.

KEY WEST, FLA.—We are informed that the Key West Electric Light & Ry. Co. is preparing to extend its line and to operate its cars by electricity. Charles Sperry, Supt. and Engr., 12 West 31st St., New York, N. Y.

AKRON, O.—The Akron St. Ry. & Illuminating Co. has purchased the Akron & Cuyahoga Falls Rapid Transit Co.'s lines in this city for $400,000. Pres., Samuel Thomas, 80 Broadway, New York, N. Y.

DAYTON, O.—The Dayton, Spring Valley & Wilmington Transit Co. has been incorporated with a capital stock of $50,000. It is proposed to construct an electric railway between Dayton and Wilmington, through Montgomery and Clinton counties for the transportation of both passengers and freight. The incorporators are: J. M. Wilson, Wallace Berryhill, J. H. Racer.

ELWOOD, IND.—The Indiana Traction Co. was incorporated, Nov. 30, to build and operate an electric railway from Elwood to Marion. The capital stock is $500,000, of which $35,000 has been paid in. The directors are: N. J. Clodfelter, F. A. Maus and C. G. Lohman, Indianapolis, Ind.; L. N. Downs, Battle Creek, Mich.; C. S. Cleaver, Chicago, Ill.; W. R. Pearson, Fairmount, Mich.; Dee Allen, Battle Creek, Mich.

HUNTINGTON, IND.—The Huntington St. R. R. Co. has been granted a franchise to construct 8 miles of track in this city, according to reports.

DEARBORN, MICH.—The village council has granted a franchise to the Detroit, Ypsilanti & Ann Arbor Electric Ry. The grading has been finished on the road from the terminus of the Citizens' Ry. to St. Joseph's retreat and a mile of rail is being laid daily. The overhead equipment is on the ground and ready to be put in place.

MOUNT CLEMENS, MICH.—James G. Tucker, Receiver Detroit River & St. Clair Ry., Mount Clemens, Mich., informs us that all rights of way have been obtained for this road, and that six miles are already built. The company has not yet determined whether it will use the trolley system or the Kinetic and Paton motors. Work is being done under the direct supervision of Mr. Tucker. When completed the line will extend from Mount Clemens to Marine City, via Chesterfield, New Baltimore, Fair Haven and Adgonac.

PEORIA, ILL.—The Peoria & Prospect Heights Ry. Co. has been incorporated in this city, with a capital stock of $100,000, to build and operate a street railway in Peoria, Tazewell and Woodford counties. The incorporators are: Walter Barker, John L. Flinn, I. C. Pinkney.

COUNCIL BLUFFS, IA.—N. C. Phillips, Cy. Clk., informs us that at the special election held in this city, Dec. 1, it was voted to grant a franchise to the Council Bluffs, Lake Manawa & East Omaha Construction Co. for the construction of a street railway to Lake Manawa. It is said that work will commence immediately, weather permitting. Among those interested are: C. R. Hannan, J. A. Patton and Emitt Finley, all of Council Bluffs.

ST. LOUIS, MO.—The Russell Place & Oak Hill Ry. Co. has been incorporated with a capital stock of $2,000, according to reports, to construct a street line in this city. Among those interested are: G. W. Parker, T. G. Russell, and C. L. Russell.

DENVER, COLO.—It is reported that the Denver City Ry. Co. will change the motive power for its cars from cable to electricity. G. E. Randolph, Gen. Mgr.

PASADENA, CAL.—W. H. Smith informs us that there is no truth in the report that the Los Angeles & Pasadena Electric Ry. Co. will extend its line to the foot of the trail up Mount Wilson. Pres., C. W. Smith; Ch. Engr., G. J. Kuhats.

MEYERS FALLS, WASH.—A project is under consideration for the construction of an electric line from this place to Colville, a distance of 9 miles, using the power generated by the Meyers Falls and the Kettle Falls. Among those interested are: A. J. Ross, Vice-Pres. Exchange Natl. Bank, of Spokane; and W. B. Arms, of Meyers Falls.

PENELON FALLS, ONT.—A proposition is being considered by the county commissioners, which provides for the building of an electric railway between Penelon Falls & Peterborough.

GUAYMAS, MEXICO.—It is reported that the street railway in this city has recently been purchased by American capitalists, and that the new owners will convert it into an electric line.

ELECTRIC LIGHT AND POWER.

LACONIA, N. H.—Press reports state that the Laconia Electric Light & Power Co. will spend over $100,000 on its proposed plant for furnishing power and light to this city, for which it was recently granted a franchise. The company was also granted a franchise for lighting Belmont, N. H.

WATERTOWN, CONN.—It is reported that A. J. Chase, Sudburg Bldg., Boston, Mass., wants estimates for electric lighting, freight elevators, etc., for a $28,000 storage warehouse in this city to be owned by Pierpont Bros.

ELMHURST (L. I.), N. Y.—The town board is reported as considering a petition for extending the electric light service.

FREEPORT (L. I.), N. Y.—The Hyer-Sheehan Electric Motor Co., Newburg, N. Y., is said to have been awarded a contract for constructing a municipal electric light plant in this place. The contract calls for a 250-light arc machine, two 750-HP. alternators; two Corliss engines of 100 HP. each; and a boiler of 100 HP. capacity. The boiler is to be used in connection with a water plant already in position. The company will also furnish 31 miles of pole lines, with 101 arc lamps for street lighting. The alternators will furnish the power required for commercial purposes.

HEMPSTEAD (L. I), N. Y.—The town board has granted a franchise for lighting the streets of Lynbrook with electricity to John N. Williamson, of Ozone Park, L. I. P. J. Neagle has the contract for furnishing kerosene lights.

LE ROY, N. Y.—Harry N. Falkner, Supt., writes us that repairs to the gas and electric light plant will not be extensive and can be done by local labor. A report states that the water and light commissioners have asked for bids for the purchase of $40,000 of bonds for buying the gas and electric light plant, etc.

NEW BRIGHTON (S. I.), N. Y.—Bids were asked Dec. 7 for furnishing arc and incandescent lights for five years. Jos. F. O'Grady, Clk. Bd. Trustees.

SYRACUSE, N. Y.—Local papers state that Eugene Hughes, Col. Jno. F. Gaynor and others are interested in a projected electric light plant for this city.

TONAWANDA, N. Y.—It is reported that this place will return to electric lighting for its streets and public buildings. Jas. B. Huff, Village Pres.

WASHINGTON, D. C.—Bids are asked until Dec. 30 for installing an electric light and power plant in the post-office building in this city. (Postponement from Nov. 30.) O. L. Spaulding, Asst. Secy. Treasury Dept.

SAVANNAH, GA.—Bids are asked until Dec. 10 for furnishing 500 arc lights for a term of one, three or five years; and also for furnishing incandescent lights for the city buildings. Harry Willink, Comr. Pub. Wks.

DONALDSONVILLE, LA.—Bids are asked until Dec. 20 for furnishing the machinery, etc., and for constructing an electric light plant, according to reports. Population, 3,500. Mayor, Paul Leche; Consult. Engr., Geo. U. Borde, 501 L. L. & G. Bldg., New Orleans, La.

ELIZABETHTOWN, KY.—R. L. Winstersmith, Mayor, writes us that the council on Dec. 6 will take up the subject of electric lights. It is probable that a franchise for lighting of the city will be sold.

IRONTON, O.—E. F. Tyler, Mayor, writes us that the proposition of issuing $20,000 in bonds for a municipal electric light plant will be submitted to the citizens.

MARION, IND.—Arthur Frantzer & Co., Chicago, Ill., submitted the lowest bid Nov. 30 for constructing an electric light plant at the Soldiers' Home at $13,700. The report states that Congress appropriated only $10,000 for the plant. New bids will probably soon be asked. There will be required 15 arc and 2,546 incandescent lights.

PERU, IND.—Peter Kelly, C. E., writes us that there have been no steps taken in regard to an electric light plant for this city. A permit has been granted, however, for an electric motor for furnishing power for pumping at the oil wells, of which there are 250.

SHERIDAN, IND.—Bids are asked until Dec. 20 for constructing a brick electric light station, etc., according to reports. E. M. Richardson, Town Clk.

BRIGHTON, MICH.—The council is reported to have granted a franchise for an electric light plant to a Detroit company. Work will probably be begun at once.

SAGINAW, MICH.—Bids are asked until Dec. 21 for placing electric wires and conduits in the post-office building in this city. O. L. Spaulding, Asst. Secy. Treasury Dept., Washington, D. C.

CHICAGO, ILL.—Press reports state as follows: The Commonwealth Electric franchise has passed into the hands of persons interested in the company which controls the local gas properties. The consideration, it is said, was $250,000. The purpose of the purchasers is supposed to be the establishment of electric plant to be run in opposition to the Edison Company. The ordinance granting the Commonwealth franchise was passed over the veto of Mayor Harrison on June 28 last. It is said to be the broadest electrical ordinance ever passed by the council. It permits the use of electrical conductors for electric lighting, heating, or for telephone or telegraph service.

SAYBROOK, ILL.—Our correspondent informs us that an election will soon be held to vote on the question of issuing $15,000 in bonds for a municipal electric light plant.

MANNING, IA.—H. G. A. Brunnies, Mayor, writes us that the town has resolved to secure electric lights and wants to grant a franchise to a reliable company. E. B. Hillman & Co., Peoria, Ill., have submitted the only proposition up to Dec. 3.

WARREN, MINN.— Theo. F. Brush writes us that nothing definite has been done in regard to electric lights for this place. There will probably soon be some action taken.

WHEATON, MINN.—Press reports state that R. Williams proposes to construct an electric light plant.

PARK RIVER, S. DAK.—H. O. Libby, Mayor, writes us that nothing has yet been done in regard to the proposed electric light plant, but probably will be soon. Geo. F. Honey, Cy. Audr., should be addressed.

FORT SMITH, ARK.—Bids are asked until Jan. 1 for furnishing 70 arc lights for a period of 10 years. Jas. B. Gass, Cy. Engr.

DALLAS, TEX.—C. L. Wakefield, Gen. Mgr., Dallas Ice Factory & Cold Storage Co., writes us that this company has changed its name and charter to the Dallas Ice Factory, Light & Power Co., with a capital stock of $199,000. About $50,000 will be spent at once for an electric light plant. The generators have been purchased from the Westinghouse Mfg. Co. The company is now only in the market for wire and lamps. Des. Engr., P. D. C. Bail.

HOUSTON, TEX.—We are informed that this city voted Nov. 29 to issue $100,000 in bonds for erecting an electric light plant. L. A. Gueringer, Cy. Engr.

IDAHO SPRINGS, COLO.—Press reports state that an electric power plant will be put in here by Eastern capitalists to supply power to mines, mills, etc.

SPOKANE, WASH.—Press reports state as follows: United States Senator Turney, John A. Finch, and A. B. Campbell, of Spokane, are directors of a company organized in New York with a capital stock of $1,000,000 to develop the water power of the Pend d'Oreille River, near its confluence with the Columbia, and deliver electric power into Rossland, Trail, and other camps of the Kootenai district. It is proposed to develop 2,000 HP. and to utilize the present works of the Goodhugh syndicate of New York, which developed 750 HP. to work placer deposits at the southern Pend d'Oreille.

EUGENE, ORE.—Edward M. Force writes us that the plans are completed for establishing a 150-K-W. monocyclic plant. There will be required an engine, boiler, heater, shafting, pulleys, etc.

FRESNO, CAL.—Press reports state as follows: Contracts have been signed by companies of business men of Selma and Hanford with the San Joaquin Electric Co., of Fresno, to furnish those places with electric light and power. The electric company operates a generating plant by water power in the mountains, 35 miles northeast of this city, and the current is conducted here by wire. It is proposed to transmit 19,000 volts directly from the power house to Selma and Hanford, the latter place being 67 miles distant. The electric company has a large plant, and in time it proposes to furnish light and power to all points in the San Joaquin Valley.

HYRUM CITY, UTAH.—Jas. Unworth, Secy. Hyrum Light & Power Co., writes us that the contract for the power and light plant has been awarded to C. Garff, Ogden, Utah, at $6,000. The machinery has been ordered. The poles and wires are up, etc. The Penstock, Leffel wheels, etc., will be completed by Dec. 15.

TORONTO, ONT.—The construction of a municipal electric light plant to cost over $500,000 is being considered. E. H. Keating, Cy. Engr.

ASHCROFT, B. C.—John Shields, Ashcroft, writes us that the Ashcroft Water-Works Co., Ltd., has been incorporated to provide this place with light and water. The power and light will be generated from a mill at the mouth of the Bonaparte River, about 1¼ miles from this place. Unless the town becomes incorporated so that it can pay for public hydrants and lights, it is not likely that the company will do anything at present.

MEXICO, MEX.—It is reported that the La Compania Mexicana de Electricidad, recently organized, is securing subscriptions for its proposed electric lights and power to mercantile houses, private residences and manufacturing plants.

NEW COMPANIES.—Sanford Water & Light Co., Sanford, N. C.; $25,000; W. A. Monroe, Moffitt Bros., W. J. Edwards.

South Jersey Light, Heat & Power Co., Camden, N. J.; $100,000; with $1,000 paid in. At the last meeting of the council Mr. Mohrman introduced on first reading an ordinance granting the company a franchise to lay pipes, erect poles, string wires and operate a plant in this city. The ordinance was referred to the street committee: Dr. Henry H. Davis, William C. Kean, David B. Kaighn, J. Harry Knerr, Joseph I. Morris, Abraham Anderson.

Bowery Bay Electric Light, Heat & Power Co., Long Island City, N. Y.; to manufacture electricity for sale in Long Island City and Newtown; $10,000; Walter Forster, Louis von Bermith, Long Island City; George Ehret, John B. Hassiocher, Edward Burghard, New York city.

St. Anne Light & Power Co., St. Anne, Ill.; $10,000; Hugh A. McCreadie, P. H. Sprague, Simon Schloss.

De Funiak Springs Electric Light & Water-Works Co., De Funiak Springs, Fla.; $10,000; T. F. McYourin, R. W. Storrs, W. Rogers, A. J. Griffin, Dr. C. A. Landrum.

Montoursville Electric Light Co., Montoursville, Pa.; $10,000, with $1,000 paid in; Treas., Edgar A. Tennis, Thompsontown, Pa.

Montgomery Electric Light & Power Co., Montgomery, Pa., $7,000, with $700 paid in; Treas., Robt. A. Sechler, Montgomery.

BRIDGES

CANASTOTA, N. Y.—Reports state that a committee consisting of S. K. Bemiss, J. W. Wilson, Levi Farr and J. W. Goodell, has been appointed to present a petition from the board of trustees to the legislature for the change of grade and construction of a new lift bridge at Peterboro St.

CLYDE, N. Y.—It is reported that the Wayne county supervisors have resolved to construct a new bridge over the Seneca River and marsh to be built by the state in place of the present structure, which is declared to be unsafe.

MOUNT VERNON, N. Y.—Reports state that plans for a bridge to City Island have been submitted by the park board to the secretary of war for approval. The board of estimate has been asked to appropriate $250,000 for the bridge.

NEW YORK, N. Y.—The board of estimate and apportionment has submitted to the war department plans prepared by Clinton & Russell for the construction of a bridge over the Harlem River to connect Lenox Ave. with Girard Ave. It will have a draw 400 ft. long, by 66⅔ ft. wide; the structure will be three-fourths of a mile long. Estimated cost, including approaches, $1,246,000.

NORTH TONAWANDA, N. Y.—Edward Evans, of this place, informs us that the Niagara bridge bill failed to receive the signature of the Governor and that the people will not consent to the construction of a low-grade bridge, but want a high structure to admit the passage of ships.

PLATTSBURG, N. Y.—The town board has decided to construct two iron bridges, one at the Creek, 42 ft. long and 18 ft. wide, and another at the Reservoir, a 33-ft. span and 18 ft. wide.

ROCHESTER, N. Y.—Local papers state that City Engineer Fisher has approved the plans by C. W. Buckholz, Ch. Engr. Erie R. R. Co., for a new bridge across the tracks at Clarissa St., to be commenced in the spring.

WASHINGTON, D. C.—Our correspondent informs us that Geo. S. Morison, 1742 Monadnock Bldg., Chicago; L. L. Buck, 84 Broadway, Brooklyn, and Wm. H. Breithaupt, 71 Broadway, New York, are engaged in making competitive designs for a bridge on Connecticut Ave., over Rock Creek, according to an act of Congress. The first prize is $600; second, $500; third, $400. The district commissioners in addition will recommend the engagement of the successful designer as consulting engineer on the bridge when built. ——The district commissioners have recommended to Congress the appropriation of $250,000 for the reconstruction of the Navy Yard bridge over the Eastern Branch. This bridge has been declared too light for the present traffic by the engineer of bridges.——Bids will soon be asked for the widening of P St. bridge over Rock Creek, Congress having appropriated $8,000 for this purpose.

LORAIN, O.—Reports state that the commissioners of Lorain county have decided to submit to a vote the question of constructing a new high level bridge and approaches across Black River at Lorain. It will have a draw of about 300 ft., with a 700-ft. approach. The present bridge, which has become too small and light, will probably be moved about a mile further up the river.

BEAVERTON, MICH.—It is reported that an iron bridge 318 ft. long, having a span of 90 ft., and to be 16 ft. wide, will be constructed over the Tobacco River, between this place and Gladwin.

DETROIT, MICH.—It is reported that the board of supervisors has granted the Detroit & Lima Ry. the privilege of constructing a bridge with a span of 120 ft. across the River Rouge in Springwells township.

ELDORA, IA.—Reports state that a petition will be presented to the county board for constructing a bridge over the Iowa River at this place.

MILWAUKEE, WIS.—Reports state that the construction of a new bridge at Grand Ave. of the folding draw type is being considered; estimated cost, $40,000; as the old bridge has become inadequate, and in the mean time will have to be repaired at a cost of $3,000.

BENSON, MINN.—The following bids were received Nov. 24 for constructing a pile bridge over the Chippewa River, north of here; H. P. McConnell, County Audr.:

Wilkinson & Webster, Appleton, Minn.	$640
Nels Erickson, Benson, Minn.	648
T. H. Donnelly, Benson, Minn.	629
Wm. Clint, De Graff, Minn.	598
Milwaukee Bridge & Iron Works, Milwaukee, Wis.*	559
Van Norman Bridge Co., Minneapolis, Minn.	645

*Accepted.

WINONA, MINN.—Local papers state that the Chicago & Northwestern Ry. Co. will this winter erect a new steel draw 360 ft. long in its drawbridge across the Mississippi River at this city to cost $50,000.

KANSAS CITY, MO.—The Kansas City Bridge Co., Kansas City, submitted a bid Nov. 27 at $859 for constructing four wooden bridges on the Fritz Riskey road. Thos. F. Callahan, County Surv.

HICO, TEX.—Press reports state that a contract has been awarded the Edge Moor Bridge Works, Wilmington, Del., for the construction of a 140-ft. skew bridge over the Basque River at the Middle Crossing.

ROCKPORT, TEX.—It is reported that a number of citizens of this place are making efforts to have a bridge constructed across the shallow bay, back of this town.

FLORENCE, COLO.—We are informed that the Pueblo Bridge Co., Pueblo, Colo., was awarded a contract Nov. 23 for constructing a 200-ft. steel bridge to Cyanide, at about $7,000.

TACOMA, WASH.—Reports state that the commissioners of King and Pierce counties are to replace the Buckley bridge, recently washed away, by an iron and wooden structure. The old structure cost $4,000.

HONDA, COLOMBIA, SOUTH AMERICA.—Press reports state that the Massillon Bridge Co., Massillon, O., was awarded a contract Dec. 1 for constructing a steel cantilever bridge 800 ft. long over the Magdalena River at this place.

UTRECHT, NETHERLANDS.—Reports state that A. & P. Roberts Co., of the Pencoyd Iron Works, Philadelphia, Pa., have offered the lowest bid, at $474,000, for the construction of a bridge over the Yassel River, near Westervoort.

BUILDINGS

HANOVER, N. H.—It is reported that plans have been accepted for the new Wilder physical laboratory of Dartmouth College. It is to be a 3-story brick, stone and terra cotta building, 107x56 ft. and is estimated to cost $60,000. Pres., Wm. J. Tucker, LL. D.

WORCESTER, MASS.—Bids are being asked for doing the plumbing work in the new building erected in this city by C. F. Stevens, 26 Southbridge St., at a cost of $60,000.

PROVIDENCE, R. I.—A fire in this city, Dec. 2, destroyed the furniture store of Flint & Co., causing a reported loss on stock and building of $125,000.

TORRINGTON, CONN.—Plans are asked until Dec. 15 for the proposed town hall to be erected at this place. O. R. Tyler and Burr Lyon may be addressed.

ALBANY, N. Y.—Reports state that a new theatre building will be erected in the spring on the site of the old American Theatre, on State, near Pearl St. Among those interested are: Lester J. Saul and M. Livingston, of Albany; Col. Ashley W. Cole, Chn. State R. R. Com., Brooklyn, N. Y.

BUFFALO, N. Y.—Bids are asked until Dec. 22 for constructing an oil house at Fort Porter. Address J. W. Pullman, Q. M., U. S. A., Buffalo.——Green & Wicks, 110 Franklin St., have been retained to prepare plans for a marble, terra cotta and granite building for the Buffalo Savings Bank, to cost about $300,000.

BUFFALO, N. Y.—W. H. Archer, 85 West Eagle St., has prepared plans for a flat building, to be built on Virginia St. Cost, $20,000.

MOUNT McGREGOR, N. Y.—The Hotel Balmoral was destroyed by fire, Dec. 1; the building was erected in 1882 at a cost of $50,000, and the contents were valued at $25,000; total insurance, $28,000. Owner, E. A. Mannix, Pittsfield, Mass.

NEW YORK, N. Y.—Bids are asked by the board of estimate and apportionment at the City Hall, until Dec. 14, for furnishing materials and performing work in the erection of a Hall of Records building on Chambers, Centre, Reade and a new street, the entire work to be completed within 550 working days; bond required, $500,000; as stated in our advertising columns. —— Bids are asked by the department of docks, Pier A, North River, until Dec. 14 for enclosing the recreation building on the pier at the foot of East 3d St., and preparing the building for a winter resort.——Bids are asked by the department of charities, 66 3d Ave., until Dec. 14, for materials and work required for the alteration of a frame dwelling and the construction of a new frame building for the Fordham Hospital; two bonds required, $6,000 each.——Reports state that the Dudley Co., incorporated in New York, Dec. 2, will improve the property at 71 to 77 William St. and 16 Liberty St., which it has recently acquired.——A fire in this city, Dec. 5, destroyed the 5-story brownstone building at 148 Duane St., occupied by Julius Wile, Brother & Co., Whiting Paper Co. and others. Reported loss, on stock, $100,000; on building, $20,000.——Plans have been filed by C. H. Taylor, 312 West 106th St., for two 7-story brick flat and store buildings at Amsterdam Ave. and 79th St., to cost $275,000. Arch., Henry Anderson, 1,180 Broadway; by the city for a 9-story brick Hall of Records, at Chambers, Reade and Centre Sts., to cost $2,500,000. Arch., John R. Thomas, 160 Broadway; by the city for a 5-story brick public school building on 183d St., from Beaumont to Cambreling Ave.; cost, $170,000. Arch., C. B. J. Snyder, 585 Broadway; by Laura Stiefler, for three 4-story brick flat buildings on 3d Ave., near 176th St., to cost $57,000. Arch., John Stiefler; by George Stolz, 1,324 Franklin Ave., for eight 4-story brick flat buildings on Brook Ave., near 170th St., to cost $128,000. Archs., Charles Baxter & Son, 2,580 3d Ave.

The following bids were received by the board of education, Nov. 30, for erecting new school building No. 169, west side of Audubon Ave., between 168th and 169th Sts.:

Herman Probst, 1,180 Broadway	$202,900
Harry McNally, Assoc. Charities Bldg.	204,161
P. J. Brennan, 22d St. and 6th Ave.	204,500
Murphy Bros., 407 East 101st St.	206,868
Thomas Dwyer, Temple Court	213,000
P. Gallagher, 156 5th Ave.	213,421
Mahoney Bros., 52 New Bowery	215,290
T. Cockerill & Son, 550 West 41st St.	217,219
T. Mahony & Son, 156 5th Ave.	224,800

The following bids were received by the board of education, Nov. 30, for installing a heating and ventilating apparatus and electric lighting plant in Public School No. 157:

Frank Dobson, 218 East 42d St.	$24,262
Baldwin Engineering Co., 106 Beekman St.	24,749
Foskett & Bishop Co., 123 Liberty St.	24,775
Wells & Newton Co., 235 Eldridge St.	25,267
G. A. Suter & Co., 112 Wooster St.	25,435
Blake & Williams, 362 West Broadway	25,444
Evans-Almirall Co., 44 Dey St.	25,619
Wm. N. Tobin, Syracuse, N. Y.	25,674
James Curran Mfg. Co., 512 West 36th St.	26,000
E. Rutzler, 178 Centre St.	26,170
New York Steam Fitting Co., 203 Grand St.	26,616
Huey Bros., Boston, Mass.	26,967

NEW YORK, N. Y.—Bids are asked by the commissioners of the sinking fund, at the Comptroller's office, 280 Broadway, until Dec. 20, for furnishing materials and performing work in the erection of the new courthouse for the appellate division of the supreme court in the first department, at Madison Ave. and 25th St.; estimated cost, $700,000. Arch., James Brown Lord, 160 5th Ave.——Plans have been accepted by Lyman J. Gage, Secy. of Treasury, for the new immigrant station to be erected at Ellis Island at a cost of about $570,000. There will be but one building, of brick and stone, with five divisions, and capable of accommodating 4,000 immigrants a day. Archs., Boring & Tilton, 57 Broadway.——Plans have been filed by John C. Klett, 345 West 44th St., for two 6-story brick tenement and store buildings at 183 West End Ave., to cost $50,000. Arch., Josef Wolf, 1125 Broadway.——The following bids were received by the board of education, Dec. 6, for a new school building on East 183d St., between Beaumont and Cambreling Aves.:

James J. Loonie, 147 West 76th St.	$183,400
P. J. Brennan, 22d St. and 6th Ave.	187,000
Murphy Bros., 407 East 101st St.	191,500
Thomas Cockerill & Son, 550 West 41st St.	198,900
Luke A. Burke, 401 West 59th St.	199,470
P. Gallagher, 156 5th Ave.	199,975
C. & P. Ryan, 212 East 107th St.	199,900
T. Mahony & Son, 156 5th Ave.	203,181

TONAWANDA, N. Y.—We are informed that Armitage, Herschell & Co. will build a 3-story brick block on Main St., to cost about $30,000.

PHILADELPHIA, PA.—Plans are being prepared, according to reports, for one hundred 3-story brick and stone dwellings to be erected at Overbrook, at a cost of $600,000. Arch., Willis G. Hale, Weightman Bldg.

PITTSBURG, PA.—Bids are asked by the department of public safety until Dec. 11 for steel vault fixtures for the general office of the department, etc. J. O. Brown, Director.

PITTSBURG, PA.—Bids are asked until Dec. 9 for the furnishing, erection and connecting complete at the Pittsburg City Home and Hospitals, Marshalsea station, of a pressure feed water heater and purifier of a capacity of not less than 600 HP. George Booth, Dir. Dept. of Charities.

RICHMOND, VA.—Plans have been adopted for the new All Saints Episcopal Church building to be erected in this city at a cost of $48,000. Archs., Barney & Chapman, 1,286 Broadway, New York.

DECATUR, GA.—Bids are asked by Ordinary Ragsdale until Jan. 26, for erecting a new court house for De Kalb county. Archs., Golucke & Stewart, 24½ Whitehall St., Atlanta, Ga.

MACON, GA.—The commissioners of Bibb county have ordered G. M. Davis to prepare plans for a new county asylum building.

MONTGOMERY, ALA.—M. T. Lewman & Co., of Louisville, Ky., have been awarded the contract for building 142 stations, roundhouses and other buildings on the 300-mile extension of the Mobile & Ohio R. R. to this city.

NEW ORLEANS, LA.—The Olympic Theatre building in this city has been burned, causing a reported loss of $40,000; insurance, $20,000.

ASHTABULA, O.—A special election will be held in this city, Dec. 16, to vote upon the issuance of $40,000 in bonds for heating a new high school building. Fred H. Williams, Clk.

CLEVELAND, O.—An issuance of $300,000 in bonds for erecting new high school buildings in this city is contemplated.

CHICAGO, ILL.—Armour & Co. have been granted a permit to construct an addition to their Minnesota elevator on the Chicago River, between Elston Ave. and Werdon St. The building will be of brick and wood, 317x97 ft., and will have a capacity of 750,000 bushels; estimated cost, $140,000.

Arch., Jos. H. Record, 608 Wright Block, Minneapolis, Minn.——An addition to the New York Life Building will soon be erected at Monroe and La Salle Sts., to cost about $300,000. Henry Phipps, Jr., of Pittsburg, Pa., is interested. Plans have been prepared for converting the Casino Building, at 227 and 229 Wabash Ave., into a 4-story office building, at a cost of about $40,000. Archs., Egan & Prindeville.

STREATOR, ILL.—The Union National Bank Building has been destroyed by fire; loss not yet estimated; also the department store of D. Heenan & Co., entailing a loss of $55,000 on building.

DETROIT, MICH.—The following bids have been received for two hydraulic mail lifts for the U. S. court house and post office building in this city; James Knox Taylor, Supervising Arch., Washington, D. C.:

Otis Bros. & Co., New York, N. Y.	$3,145	3 days.
Gardner Elevator Co., Detroit, Mich.	1,335	1 mo.
Standard Elev. & Mfg. Co., Chicago, Ill.	2,255	90 days.
Crane Elevator Co., Chicago, Ill.	2,075	60 days.

LA CROSSE, WIS.—The Pomeroy and the McMillan Opera House blocks were destroyed by fire, Dec. 2, causing an estimated loss of $200,000.

MARINETTE, WIS.—Plans and estimates are asked until Jan. 1, for a 2-story brick and stone addition to the Marinette county jail for juvenile prisoners, to cost about $5,000. A. Garrets, Chn. County Bd.

MILWAUKEE, WIS.—Bids are asked until Dec. 20 for all the labor and material required to place in position complete all the iron vault and closet doors in the post office, court house and custom house in this city; as stated in our advertising columns. James Knox Taylor, Supervising Architect, Washington, D. C.

COLLINS, IA.—A recent fire at this place destroyed the business portion of this town, causing a loss of about $75,000.

HAYS CITY, MINN.—Bids are asked until Dec. 22 for erecting a new court house in this city to replace the one recently burned; estimated cost, $15,000. L. M. Wood & Son, Archs., Stewart Bldg., Topeka, Kan.; J. C. Adkins, Clk. of Ellis county.

ANACONDA, MONT.—The school trustees have awarded Dolan & Hammill the contract for constructing the Lincoln school building at $30,460; Young & Dexell, for the plumbing, at $1,149, and the Anaconda Mining Co., for the heating apparatus, at $2,925.

GRANT CITY, MO.—B. R. Williams, Clk of County Court, informs us that the following bids were received, Nov. 25, for erecting a new court house in this city:

Griffith & Davis, Trenton, Mo.	$22,800
Rowles & Moore, Moulton, Ia.	28,609
Stanberry Press Brick Co., Stanberry, Mo.	24,072
Northern Building Co., Minneapolis, Minn.	23,500
M. E. Bush, Des Moines, Ia.	26,872
J. H. Konefes & Son, Quincy, Ill.	24,773
Angus McLeod Co., Minneapolis, Minn.	24,837
Akin & McHall, Omaha, Neb.	26,897
A. H. Chaffie, Corning, Ia.	23,588
Hinkley & Powers, Waupun, Wis.	24,475
C. F. Haglin, Minneapolis, Minn.	22,980
O. J. King, Omaha, Neb.	25,000

All of the bids were rejected and, after some changes were made, bids for the building were reopened and the contract awarded to the Stanberry Press Brick Co., at $19,360. The contract for heating and plumbing was awarded to C. P. Farrell, of St. Joseph, Mo., at $1,929.

ST. JOSEPH, MO.—Bids are asked until Dec. 13 for the purchase of $25,000 of court house and jail bonds for Worth county. Henry, Swift, County Treas.

ST. LOUIS, MO.—Bids will be asked for immediately, according to reports, for erecting the new city hall, which is to cost about $100,000. Ernest C. Janssen, Arch., 506 Olive St., will supervise the work.——Bids are asked by the board of education until Dec. 14 for erecting additions to five public school buildings. Wm. B. Ittner, Comr. School Bldgs.

CALVERT, TEX.—C. S. Meredith, Mayor, informs us that the following bids were received Dec. 1 for erecting a new city hall and fire station:

Oscar & Ivey (accepted), Calvert	$10,657
W. H. Kirsch, Calvert	11,025
J. M. Brown, Houston, Tex.	11,495
Jenkins & Robb, Bryan, Tex.	10,630
N. J. Emmins, Dallas, Tex.	11,141
Geo. W. Sonnefield, Dallas, Tex.	11,275
D. Mahoney, Waxahochie, Tex.	10,763
Henry Clemens, San Antonio, Tex.	13,227

ONTARIO, CAL.—The Southern Pacific Hotel was destroyed by fire Dec. 3, causing a reported loss of $60,000; insurance, $15,000.

SAN BERNARDINO, CAL.—Bids are asked by the board of supervisors until Dec. 20 for the completion of the west extension to the San Bernardino county court house. Arch., C. H. Jones, Anderson Bldg.

SAN FRANCISCO, CAL.—Plans are asked for the construction of the new St. Luke's Episcopal Church building at Clay and Van Ness Aves., to cost between $35,000 and $50,000.

BEETON, ONT.—Bids are asked until Jan. 1, 1898, for erecting and completing a house of industry at this place for the municipal corporation of Simcoe county. Eden Smith & Eustace Bird, Archs., Toronto and Barrie; Joseph Whitesides, Chn. Property Com., Elmgrove, Ont.

WATER-WORKS.

CALAIS, ME.—Press reports state that the Maine Water Co. is preparing to extend its mains in this place. Pres., Arthur Sewall, Bath, Me.; Supt., J. L. Ray.

NEW BEDFORD, MASS.—R. D. Wood & Co., Philadelphia, Pa., are said by local papers to have been awarded the contract for furnishing the water board with cast-iron pipe and castings for the coming year at $12,443.

UXBRIDGE, MASS.—The citizens' water committee, consisting of Geo. Wilmot, Jas. Daley and A. E. Jones, has applied to the legislature for an extension of the act granting a water supply, passed a few years ago.

WEST SPRINGFIELD, MASS.—The question of increasing the water supply from Bear Hole Brook or the Pawcautuck River is being considered. Population, 6,000. City Treasurer Sibley may be addressed.

WATERVILLE, CONN.—We are informed that no contracts have yet been let for constructing the proposed works for the Waterville Water Co., recently incorporated. There will be required hydrants, filter, etc. F. H. C. Reynolds & Co., 7 Exchange Place, Boston, Mass., the owners of the proposed plant, also propose to build works at Cromwell and Watertown, Conn. Population of Waterville, 1,500.

WATERTOWN, CONN.—F. H. C. Reynolds & Co., 7 Exchange Place, Boston, propose to construct works in this place.

BEDFORD STATION, N. Y.—It is stated that John Moore, Syracuse, N. Y., has been awarded the contract, at about $50,000, for constructing water-works, a sewerage system, etc., at the womans' state reformatory, in this place, as advertised in Engineering News. D. N. Carvalho, Pres. Bd. Mgrs., 265 Broadway, New York.

BROOKLYN, N. Y.—Bids are asked until Dec. 16 for the purchase of $570,000 of 3½% consolidated water gold stock. Geo. W. Palmer, Comptroller.

EAST ALBANY, N. Y.—Press reports state that the property of the East Albany Water Co. will be sold Dec. 11.

LITTLE VALLEY, N. Y.—The board of supervisors have appropriated $3,500 for a new water supply for the county almshouse at Machias. Supervisors Allen and Case may be addressed.

NEW YORK, N. Y.—Bids are asked by the commissioner of public works, 150 Nassau St., until Dec. 13, for furnishing, delivering and laying water mains in Fort George Ave., 233d St., 122d St., and the Boulevard.

PORT JEFFERSON (L. I.), N. Y.—The Port Jefferson Power & Water Co. has been organized with a capital stock of $15,000 by J. E. Bayles, M. L. Chambers, Jas. Dayton, M. V. B. Brewster and others.

SOUTH NYACK, N. Y.—Plans for water-works for the Christian and Missionary Alliance property are being prepared by the water commissioners, and also for an entirely new and revised system of piping for the whole village of South Nyack, and the village of Upper Nyack, which is supplied in both cases by the water commissioners of Nyack under their franchise acquired from the Nyack Water-Works Co. Jas. S. Haring, Engr. Water Comrs., Nyack, is preparing the plans, and has also located the site for a new higher service reservoir which will probably be constructed next year.

TOTTENVILLE (S. I), N. Y.—Ernst Cossman, Stapleton, S. I., writes us that nothing has yet been done in regard to plants for the proposed works for the West End Water Co., noted last week. It is likely nothing will be done until next month.

WATERLOO, N. Y.—Press reports state that the millowners of Waterloo, Seneca Falls, Baldwinsville, Oswego Falls, Fulton and Oswego, are organizing an association to secure legislation for improvements at the head of Seneca outlet that will provide a regular water supply to all the mills on the Seneca and Oswego rivers. The state has recently constructed a substantial sea wall across the foot of Seneca Lake at Geneva, and it is only necessary to erect a dam with gates at the head of the outlet to hold back and raise the waters of the lake four feet, making the lake a reservoir, from which water can be drawn at will during the dry season.

CAMDEN, N. J.—The Camden County Water Supply Co. has been incorporated with a capital stock of $1,000 by Jos. S. Keen, Jr., Philadelphia, Pa.; J. W. Hawley, Meadia, Pa.; Ernest Watts, Burlington, N. J.; Geo. Reynolds and J. C. White, of Camden.

ELMER, N. J.—It is reported that W. B. Jones, R. M. Hitchner and Charles Morris have been appointed a committee to consider the question of works.

VAILSBURG, N. J.—The council has voted to issue $40,000 in bonds, instead of $16,000, for the purchase and extension of works. Alderman Reynolds may be addressed.

AUSTIN, PA.—The Potter County Water Co. has been incorporated with a capital stock of $30,000, $3,000 of which is paid in. Treas., Jno. P. McIntyre, McKeesport, Pa. Work will probably be begun at once.

CAMPHILL, PA.—The Susquehanna Water Supply Co. has been incorporated with a capital stock of $5,000, of which $500 is paid in; Treas., Patrick Russ, Harrisburg.

HARRISBURG, PA.—Jos. S. Smith writes us that the question of establishing a filter plant at the water-works is only being agitated.

LEBANON, PA.—Jas. Kinney, Bellaire, O., and L. G. Hallock, Wheeling, W. Va., are reported to have been awarded the contract for furnishing this city with a new water supply at a cost of $21,850. J. A. Beckley, Chn.

LEBANON, PA.—Bids are asked until Dec. 30 for furnishing 52 fire hydrants, as stated in our advertising columns. J. D. Kerr, Secy. Bd. Water and Lighting Comrs.

MEADVILLE, PA.—The people of this city voted on the question, Dec. 7, of approving the contract made by the councils for the purchase of the works of the Meadville Water Co. for $200,000.

NEW KENSINGTON, PA.—We are informed that the owners of the New Kensington Water Co. have not decided upon improvements to the works to be made in the spring. F. A. Mellon, Jr., may be addressed.

PARNASSUS, PA.—An election will probably be held in the spring to vote on the question of works, according to reports.

WEST NEWTON, PA.—The Robbstown Water Co. was incorporated Dec. 9 to furnish this city with water, by Nelson Weddle, Jr., Wm. McCune, John R. Sutton, and others, of West Newton. Weddle & Sutton own the present works. Population, 3,000.

CRISFIELD, MD.—The town commissioners are reported to have let a contract for sinking a well for a water supply, and for constructing works, to cost about $12,000. The stand-pipe will be 100 ft. high and 16 ft. wide. J. E. Sterling, Clk. Comm.

BIG STONE GAP, VA.—A. J. Hoback, Recdr., writes us that the people of this place voted Nov. 27 against the issuing of bonds to buy the works owned by the Glamorgan Pipe & Foundry Co., Lynchburg, Va. It is said that the company has at times talked of taking up the pipe. Population, 1,000.

LYNCHBURG, VA.—L. P. Rodes, Cy. Engr., writes us that the subject of filtration at the water-works will not materialize until spring or summer.

GREENWOOD, S. C.—Bids are asked by the town clerk until Dec. 15 for the purchase of $40,000 of 6% water and light bonds, according to reports. Work on the improvements will not be begun until about February. R. M. Hayes, Chn. Com.

CORDELE, GA.—Our correspondent informs us that this place voted, Dec. 3, in favor of issuing $7,000 in bonds for water-works.

BIRMINGHAM, ALA.—Geo. C. Kelley, of the Artesian Water Co., writes us that arrangements are now being completed for wells and works. No contracts have yet been awarded. A reservoir is to be built; also a pumping station of 6,000,000 gallons capacity daily. The source of supply will be about 1½ miles from the city. The water will be pumped to a reservoir 200 ft. above the well. Population, 50,000.

LIVINGSTON, ALA.—C. E. Mathers writes us that C. E. Mathers & Co. will probably soon be granted a 30-year franchise for works. If franchise is granted $10,000 in 8% bonds will be issued.

ALLIANCE, O.—W. H. Dressler, Mayor, writes us that the committee has made a report and the city engineer drawings, etc., for municipal works. Nothing further has been done. O. W. Ptouts, Cy. Engr.

CINCINNATI, O.—It is probable that the contract for furnishing and placing the pumping machinery for the new water-works will be awarded to A. G. Moore & Co., Cincinnati. The bids are given under Contract Prices.

DAYTON, O.—Bids are asked until Dec. 17 for furnishing the water-works with a 60-in. air chamber, 36-in. hydraulic lift valve, 300 ft. of 33 to 66-in. cast-iron flange pipe, special castings, etc. Chas. E. Rowe, Secy. Bd. Water-Works Trustees.

LANCASTER, O.—John P. Force, Columbus, O., has submitted his report on the proposed water-works, sewerage system and plumbing for the boys' industrial school in this city. The improvements are estimated to cost about $35,000.

VALPARAISO, IND.—Press reports state that the question of extending the franchise of the Valparaiso Water Co. 25 years is being considered. The present franchise expires in 1899.

YALE, MICH.—Jas. McCall, Pres. Water Comrs., writes us that the town has abandoned the putting in of works for the present.

BELLEVILLE, ILL.—We are informed that the proposed municipal water-works will consist of a 2,000,000 gallon triple expansion Worthington pumping engine; a duplex Ingersoll-Sargeant compressor, double nozzle hydrants, a 160 ft. steel stand-pipe, 25 ft. in diameter, furnished by Riter & Conley, Pittsburg, Pa.; cast-iron pipe and special castings furnished by the Anniston Pipe & Foundry Co., Birmingham, Ala., and Bacon air lifts for 10 wells. The building of the works will be done by the Myers Construction Co., St. Louis, Mo. W. J. Henry, Vice-Pres.

ST. ANNE, ILL.—The St. Anne Light & Water Co. has been incorporated with a capital stock of $10,000 by Hugh A. McCreadie, P. H. Sprague and Simon Schloss.

OSHKOSH, WIS.—Press reports state that the question of issuing $400,000 in bonds for the purchase of the works owned by the Oshkosh Water-Works Co. is being considered. Mayor Ideson may be addressed.

COLLINS, IA.—The construction of works is being considered, according to reports.

PIERSON, IA.—Bids are asked until Dec. 15 for constructing works. J. H. Benson, Recdr.

POMEROY, IA.—The question of works is being considered, according to reports.

DULUTH, MINN.—Mayor Henry Truelsen writes us that after 10 years of litigation the city has at last agreed with the bondholders of the Duluth Gas & Water Co. to purchase the plant for $1,250,000. The proposition will be voted on by the people Jan. 12. There is no doubt but that it will carry by a large majority. After the election the city will issue 4½% bonds, on which a large premium is expected, as these bonds will be a special lien on the plant. In addition to this, a bond of general indebtedness will be secured by all the taxable property in the city. The supplementary system, which will be completed by February, covers eight miles of new territory.

HILLSBORO, N. DAK.—The construction of water-works and an electric light plant is being considered, according to reports.

KANSAS CITY, MO.—We are informed that the following bids were received Nov. 30 for furnishing new castings for the water pumps: Holly Mfg. Co., Lockport, N. Y., $6,674; Barr Mfg. Co., Philadelphia, Pa., $9,154. R. M. Godfray, Secy. Bd. Pub. Wks.

MOBERLY, MO.—H. V. Estill, Supt. Moberly Water-Works Co., writes us that the company has closed a contract with the J. O'Brien Boiler Works, St. Louis, Mo., for furnishing two 100-HP. boilers, and for enlarging the boiler house.

NORBORNE, MO.—N. P. Evans, Mayor, writes us that the people of this place, at the election Nov. 30, voted against issuing $10,000 in bonds for works.

SEDALIA, MO.—Press reports state that the Sedalia Water & Light Co. will put in operation at once a 4,000,000-gallon pump. The construction of storage reservoirs is being considered. Supt., M. L. Andrews. In regard to the reservoirs address W. E. Connor or C. E. Messerly.

HOPE, ARK.—Bids are asked until Dec. 15 for constructing a steel tower and water tank, as stated in our advertising columns. Engr., Chas. F. Sturtevant, St. Louis, Mo.; J. T. Barr, Mayor.

LOCKHART, TEX.—Press reports state that the council has awarded a contract for new works to Geo. A. Grimn. Population, 2,000. W. R. Parker, Cy. Secy.

BERKELEY, CAL.—The board of regents of the University of California has recommended plans for new water-works for the university grounds. Martin Kellogg, Pres.

PLEASANTON, CAL.—W. J. Dingee, Frank J. Moffitt and Dennis Bernal, of the Livermore Water & Power Co., are reported as arranging for the construction of the proposed works in this place.

HAMILTON, ONT.—The committee has recommended that the height of the stand-pipe be increased. The construction of new works to cost about $130,000 is being considered.

ASHCROFT, B. C.—John Shields, Ashcroft, writes us that the Ashcroft Water-Works Co., Ltd., has been incorporated to provide this place with water and light. The water will be pumped from the Thompson River. Unless the town becomes incorporated so that it will be in a position to pay for public hydrants, it is not likely that the company will do any work.

PARA, PARA, BRAZIL.—Bids are asked by the Brazilian Consul, 22 State St., New York, until Dec. 31, for the purchase and extension of the water-works. Population, 100,000.

IRRIGATION.

MILES CITY, MONT.—W. B. Jordan, Miles City, is reported as preparing to build an irrigation ditch five miles in length.

LEADVILLE, COLO.—Press reports state that Henry Koons and Andrew Cant, Buffalo, N. Y., and of the Twin Lakes Reservoir Co., will soon begin the construction of an irrigation system at Twin Lakes, 19 miles from here, to irrigate about 40,000 acres of land; estimated cost, $100,000. The dam will be 500 ft. long. Messrs. Koons and Cant may be addressed care of the Brown Palace Hotel, Denver, Colo.

LAMAR, COLO.—The Great Western Storage & Irrigation Co. is enlarging and straightening the Fort Lyons Canal in the Arkansas Valley, Colo. For the first 44 miles the canal will be widened to a bottom width of 50 ft. The remaining 75 miles of the Fort Lyons Canal will remain as it is, but the company will construct a separate channel at a less grade in order to gain greater capacity in some large basins intended for storage. The enlargement of the first 44 miles is intended to complete by January first, or soon thereafter. E. C. Hawkins, Ch. Engr., Lamar, Colo.

PHOENIX, ARIZ.—W. J. Murphy, Pres., has been selected as receiver for the Arizona Improvement Co. It is reported that the canal will be enlarged and also cleaned.

NEW COMPANIES.—Clark & Wade Ditch Co., Paonia, Colo.; $4,800; Edward J. Matthews, Emmet R. E. Gresham, W. A. Clark, F. C. Wand and James Beezley.

Clear Creek Irrigation Co., Phoenix, Ariz.; $100,000; F. M. French, G. A. Wolff, E. Chandler, Winslow, Ariz.

Ohio Land & Canal Co., Yuma, Ariz.; to build an irrigation canal from the Colorado River near Ehrenberg to reclaim 25,000 acres of land; O. Schetter, C. O. McCarroll, H. J. Cleveland, J. F. McIntosh, G. U. Holcomb.

Badger Canal Co., Red Lodge, Mont.; $20,000; to construct a ditch for irrigation and manufacturing purposes from Rock Creek to Dry Creek, and from Dry Creek to Sand Creek, Carbon county; T. P. McDonald, Arthur Barney, Joseph Smith, James Broadley, Hiram Pierce and others, of Carbon county.

SEWERAGE.

NEW BRITAIN, CONN.—The mayor, the common council and the selectmen have been notified by the board of health of Hartford to abate and remove the nuisance arising from the pollution of the waters of Park River, caused by the discharge of sewage, by June 1, 1898. Local papers state that this is too short a time to make the change.

BUFFALO, N. Y.—Bids are asked until Dec. 16 for constructing 18 to 10-in. pipe sewers in Edison St. R. G. Parsons, Secy. Bd. Pub. Wks.

NEWBURG, N. Y.—Chas. Caldwell, C. E., informs us that no contract has been made for constructing sewers in West Newburg.

NEW YORK, N. Y.—Bids are asked by the commissioner of public works, 150 Nassau St., until Dec. 13, for altering sewers in Park Ave. and 70th St. and for constructing sewers in Ave. C and Claremont Ave.; and by the commissioner of street improvements of the 23d and 24th wards, Third Ave. and 177th Sts., until Dec. 15, for constructing sewers in 30 streets.

ROCHESTER, N. Y.—The city engineer is preparing plans for two overflow sewers for the Genesee valley canal trunk sewer.

SYRACUSE, N. Y.—The council proposes to construct 90 to 30-in. brick main sewer in the First Ward. Alderman Costello may be addressed.

SYRACUSE, N. Y.—Bids are asked until Dec. 13 for constructing 56 × 84 to 34 × 51-in. brick sewers in a number of streets. M. J. Haven, Cy. Clk.

ASBURY PARK, N. J.—Niart Rogers, Cy. Surv., has prepared estimates, according to reports, for a sewerage system for the township adjacent to Asbury Park, to cost about $76,000.

JERSEY CITY, N. J.—It is reported that the city authorities propose to extend the system in Hudson City in order to drain about 150 acres. L. D. Fowler, Ch. Engr.

SCRANTON, PA.—The city engineer has submitted estimates for sewers in the North End to cost about $24,700.

BALTIMORE, MD.—The council has appropriated $72,000 for sewers in Patuxent St. and Grove Alley.

BOWLING GREEN, O.—At a public meeting Dec. 3 it was decided not to submit the proposition to issue $80,000 in bonds for a system Dec. 6. The question will probably be submitted next spring. Engr., H. H. Riggs, The Nasby, Toledo; Chn. Com., C. W. Evers.

CINCINNATI, O.—R. H. Warder, Supt. Park Dept., has submitted plans for sewers for the parks to the board of administration.

CINCINNATI, O.—Bids are asked until Dec. 15 for constructing a section of the Bloody Run trunk sewer. Aug. Herrmann, Pres. Bd. Administration.

HAMILTON, O.—Bids are asked until Dec. 27 for the purchase of $37,300 of 4½% sewerage bonds. M. O. Burns, Clk. Bd. Sewer Comrs.

TOLEDO, O.—Bids are asked until Dec. 20 for constructing 24-in. brick sewers in certain alleys. L. P. Harris, Cy. Clk.

WINAMAC, IND.—Dr. Hurty, Secy. State Bd. Health, Indianapolis, has recommended to the council the construction of two sewage disposal beds of 100 ft. square.

BAY CITY, MICH.—The council is considering the question of constructing sewers in the 9th district. Street Commissioner Thorp may be addressed.

ITHACA, MICH.—A. P. Lane, Village Clk., writes us that this city voted Nov. 30 against issuing bonds for a system, it lacking four of the necessary two-thirds vote. Another correspondent informs us that the question will without doubt be submitted again in the spring, as suits have been instituted against the town for damage by reason of sewage being emptied into a ditch. The system complete was to cost $35,000. Des. Engr., H. E. Riggs, The Nasby, Toledo, O.

CHICAGO, ILL.—Local papers state as follows: Actual work on the intercepting sewers will not begin until early in the spring. Detailed plans for the important improvement must be approved by the council and the drainage board before the contracts can be awarded. Superintendent of Sewers Davidson and City Engineer Ericson are now engaged in preparing the plans. Within a few weeks these will be ready for presentation to the drainage board for approval. After this has been done the council will be asked to authorize the issuance of $1,200,000 in water certificates to pay for the improvement. L. E. McGann, Comr. Pub. Wks.

FORT DODGE, IA.—Bids are asked until Dec. 13 for constructing 2,800 ft. of 8-in. pipe sewer. D. A. Weller, Cy. Clk.

ST. LOUIS, MO.—Bids are asked until Dec. 17 for constructing 60 ft. of 86-in. brick sewer for a branch of the Tower Grove storm sewer; estimated cost, $1,500. Robt. E. McMath, Pres. Bd. Pub. Improvements.

HOUSTON, TEX.—Bids were received Dec. 6 for constructing 5,400 ft. of 24 to 18-in. pipe sewers at a cost of $12,000.——It is also proposed to construct 5,640 ft. of 36 to 24-in. brick and pipe sewers in Austin St. at a cost of $20,000. L. A. Gueringer, Cy. Engr.

SHERMAN, TEX.—J. C. Edwards, Mayor, is quoted as stating that the council is willing to grant a franchise for a sewerage system and sewage disposal.

DENVER, COLO.—The construction of additional sewers is being considered, according to local papers. Donald Campbell, Cy. Engr.

REDLANDS, CAL.—L. W. Clark, Clk., writes us that within a month the city will advertise for bids for constructing sewers.

GARBAGE DISPOSAL—STREET CLEANING.

ELIZABETH, N. J.—Bids are asked until Dec. 15 for removing the garbage and other refuse, including ashes, cinders, etc., from dwelling houses, hotels, etc., for a term of three years, from Jan. 1; surety, $2,000. Jas. J. Manning, Cy. Clk.

JERSEY CITY, N. J.—Bids are asked until Dec. 9 for cleaning, repairing, maintaining and sprinkling the southern division of the Hudson Boulevard for the year ending Dec. 1, 1898; check, $500. Edward W. Woolley, Clk. Bd. Freeholders.——Bids are asked until Dec. 13 for sweeping, cleaning and removing the ashes and garbage from the streets of this city for the term ending Nov. 30, 1898. Ferdinand Heintze, Chn. Sewer Com.; Wm. A. Tolson, Clk. pro tem.

CHESTER, PA.—The board of health and the street committee are considering plans for collecting and disposing of the garbage and waste of the city. Dr. Fred H. Evans and Councilman I. E. Baker may be addressed.

PHILADELPHIA, PA.—The following bids were received, Nov. 30, by Thos. M. Thompson, Dir. Pub. Wks., for cleaning the streets and removing ashes. Philadelphia Cleaning Co., 1st, 2d, 3d and 6th districts, $418,700; Edwin H. Vail, all six districts, $597,997; Richard P. Bennis, 6th district, $20,987; Geo. A. Vail, 3d and 5th districts, $143,000; John Loughlin & Co., 2d district, $154,914; Peoples Bros., all six districts, $615,000; W. H. H. Achuff, 3d district, $55,000; Daniel Dooley, 1st, 2d and 3d districts, $341,490; David McMahon & Co., 1st to 5th districts inclusive, $582,773; Jas. Curran, 2d and 4th districts, $350,780; Oliver Wilson & Co., 1st and 2d districts, $262,777; Geo. W. Ruch, 6 districts, $514,255; King & Lambert, 6th district, $40,500. The bids for collecting the garbage, etc., were given in our issue of last week.

NEW ORLEANS, LA.—Mayor W. C. Flower presented a plan Dec. 1, to the council awarding 10-year contract to the old garbage company for collecting and disposing of the garbage, waste, etc. The council decided to award the contract at $120,000 a year. The company proposes to build new incinerators. General Badger is the receiver for the company.

CHICAGO, ILL.—Local papers state that Mayor Harrison has awarded the contracts for garbage disposal for the next five years as follows: District 1, comprising the North Side; Mulcaire & Burke, Merz reduction system, $350,000; district 2, South Side, Dowdle & Chamberlain, the Chamberlain reduction system, $790,000; district 3, the West Side, south of Madison St.; Hanrahan & Downey, the Flinn reduction system, $349,313, and district 4, the West Side, north of Madison St.; Mulcaire & Burke, Merz reduction system, $384,509.

STREETS AND ROADS.

EXETER, N. H.—Dudley & Doherty, 936 Elm St., Manchester, N. H., have begun the survey for a highway to extend the entire length of the New Hampshire sea coast. The legislature made an appropriation for this survey, and for a plan and estimate of cost. Joseph O. Hobbs, North Hampton, N. H., a member of the executive council, and Col. John, President, Portsmouth, are a committee in charge of this work.

BETHEL, CONN.—Bids are asked by the selectmen until Dec. 11 for grading portions of Stony Hill Road, Elmwood Road and Putnam Park Road; total length 5,100 lin. ft. A. S. Judd, 1st Selectman.

HARTFORD, CONN.—Reports state that City Surveyor Bunce has submitted plans for paving portions of Asylum Hill with asphalt and granite blocks.

STRATFORD, CONN.—Bids are asked until Dec. 15 for grading the Ferry Road. Robert W. Curtis, A. C. Innis, E. N. Wakeley, Jr., Selectmen.

THOMASTON, CONN.—Bids are asked until Dec. 15 for grading South Main St. Aaron Thomas, Peter Duff, Thos. H. Brown, Selectmen.

BROOKLYN, N. Y.—Bids are asked until Dec. 15 for repaving Bergen St. from Nostrand Ave. to Bedford Ave. with asphalt, surety, $3,300.——Bids are asked until Dec. 13 for grading and paving portions of Butler St. with asphalt; surety, $2,750; also for grading, paving, curbing and guttering, portions of Winthrop St., surety, $9,000. Theo. B. Willis, Comr. Cy. Works.——Local papers state that the contract for grading Neptune Ave., between West 15th St. and West 35th St. at a cost of $300,000 has been awarded to Michael J. Dady.

BUFFALO, N. Y.—Reports state that the committee has recommended to the board of aldermen the paving and extension of West Huron St. from Delaware Ave. to Prospect Ave.

GOSHEN, N. Y.—Reports state that the committee of Orange county supervisors is opposed to macadam roads, and will advise a system of county roads to cost $2,000 a mile.

NEWTOWN (L.I.), N.Y.—Reports state that a petition for the appropriation of $400,000 for constructing new roads will be put to a vote Dec. 22.

NEW YORK, N. Y.—Bids are asked by the commissioner of street improvements of the 23rd and 24th Wards, 3rd Ave. and 177th St., until Dec. 15, for regulating, grading, paving, etc.; 16 contracts.

NEW YORK, N. Y.—Bids are asked until Dec. 15 for regulating and paving with asphalt, 14 contracts.——Bids are asked until Dec. 13 for flagging, curbing, grading, etc., portions of 5th Ave., 8th Ave., 7th Ave., 18th St. Chas. H. Collis, Comr. Pub. Wks.

SYRACUSE, N. Y.—Alderman Freeman is quoted as stating that he would ask the council to pave portions of Grape and Jefferson Sts. with asphalt or brick.

HOBOKEN, N. J.—The board of chosen freeholders will hold a meeting Dec. 23 to consider the question of connecting the Hudson Boulevard with Weehawken.

NEWARK, N. J.—Local papers state that the plans of Edlow W. Harrison, Ch. Engr., 23 Fuller Building, Jersey City, for the construction of a boulevard through Harrison, Kearney and Newark have been accepted.

CAPE MAY, N. J.—It is reported that bids will be asked for repairing Beach and Madison Aves. at a cost of $60,000.

READING, PA.—Reports state that $100,000 will be appropriated next year for paving in certain streets.

SCRANTON, PA.—The selectmen on Dec. 2 decided to have Wyoming Ave. opened at a cost of $70,000, and the council also adopted measures for the paving of Providence road. Councilman Wade M. Flinn may be addressed.

PITTSBURG, PA.—Local papers state that the following bids were received Dec. 1 for the improvement of the Verona and Girtys Run roads: Verona Road—Booth & Flynn (accepted), $30,670; A. W. McDonald, $34,334. Gertys Run road—Gustave Kaufman, $55,019; Jutte & Foley Co., $52,150; Sloan & Ott Bros., $47,935; A. W. McDonald, $47,774; Sweeney & Houston, $47,607; C. M. Driver, $44,668; Booth & Flinn (accepted), $38,447.

BALTIMORE, MD.—About $14,000 has been appropriated by the council for repaving with Belgian blocks portions of Poppleton St. and Biddle St. and for repaving portions of Gough St. with sheet asphalt.

SAVANNAH, GA.—Bids are asked until Jan. 1 for furnishing 300 car loads of cement gravel for resurfacing county roads. Jas. W. McIntire, Clk. County Comrs.——Reports state that Alderman Hull will introduce in the council at the next meeting an ordinance for paving Drayton St. from Anderson to 8th St., with asphalt, and for the improvement of New Houston St. from Drayton to Whitaker St.

LAKE CITY, FLA.—Reports state that Marion St. will be paved from the Georgia Southern & Florida Ry. station to the Florida Agricultural College. Mayor Rogers may be addressed.

NEW ORLEANS, LA.—Bids are asked until Dec. 13 for paving Union St. from Baronne St. to Dryades St. with Trinidad Lake asphalt. P. Alph Rabouin, Comptroller.

CLEVELAND, O.—The Michigan Pipe Co., Bay City, Mich., has been awarded a contract for furnishing creosoted paving blocks of pine and tamarack, creosoted pine plank and wheel guards for the Pearl St. viaduct. The blocks are to be 5 ins. long, between 6 and 12 ins. wide, 3½ ins. thick. This proving a success, the city will next year cover all the viaducts in the same manner.——Local papers state that the council has adopted resolutions for improving portions of McConnell, Jessie, Rose and Columbus Sts. Howard H. Burgess, Cy. Clk.

TOLEDO, O.—Bids are asked until Jan. 3 for brick paving in Nevada St. from Oak St. to Spring Grove Ave. L. P. Harris, Cty. Clk.

MONTICELLO, IND.—Bids are asked until Dec. 14 for constructing the macadam roads in Union township. M. J. Holtzman, County Audr.

JEFFERSON CITY, MO.—We are informed that this town will soon vote on the question of issuing $12,000 in bonds for certain street improvements.

RICH HILL, MO.—Bids are asked until Dec. 14 for the work and material necessary for constructing certain sidewalks in this city. Thos. O'Neal, Street Comr.

ST. LOUIS, MO.—Local papers state that the house of delegates has passed an ordinance for the improvement of portions of Elmbank, Jefferson, Easton and Bayard Aves. Geo. H. Martin, Clerk.

DENVER, COLO.—It is reported that an ordinance has been presented to the council by the board of public works for the grading of about 14 streets.

DENVER, COLO.—It is reported that the council is considering the proposition of raising funds for the general improvement of streets.——James L. Smith, C. E., has been awarded a contract for repairing 26,000 sq. ft. of track with stone blocks. Donald Campbell, Cy. Engr.

FOLSOM, CAL.—A committee composed of Prentiss Maslin, Pres.; R. A. May, Secy.; Wm. Kent, I. A. Robie, H. Holmes, R. A. May and others are reported as urging the construction of the Folsom highway.

LOS ANGELES, CAL.—Reports state that the Southern California Ry. Co. has awarded to C. Leonard a contract to gravel and pave with cement the company's yard around the La Grande Depot and freight house on Santa Fe Ave.

MONTREAL, QUE.—At a meeting of the road committee Dec. 2, it was decided to appropriate about $30,000 for the maintenance of roads for the year 1898.

MANUFACTURING PLANTS.

CLINTON, MASS.—George S. Giffin, Mgr. Sterling Worsted Co., informs us that his company will erect a 2-story brick main mill, 104 × 52 ft., and a 1-story boiler house and engine room, on Sterling St. Arch., John S. Allen, Pierce Block, Clinton.

FOXBORO, MASS.—The Foxboro Foundry & Machine Co., of Foxboro, whose building was recently destroyed by fire, is having it replaced by a steel frame structure, 80 × 140 ft. A traveling crane, for handling materials in the building, is being arranged for, and provisions are also being made for suitable jib cranes. The steel frame work is being finished by the Berlin Iron Bridge Co., of East Berlin, Conn.

ELMIRA, N. Y.—I. B. Coleman, Railroad Ave., near Church St., informs us that it will not be necessary for him to build a new shop to replace the one recently burned, as he has at present leased an unused building and will soon be ready to manufacture hand and power elevators and do a general jobbing business. The loss was fully covered by insurance.

NIAGARA FALLS, N. Y.—Haeberle Bros. have been awarded the contract for constructing the temporary plant of the Acetylene Gas Machine Co., of Niagara Falls, Ont., which is to be erected at this place.

SCHENECTADY, N. Y.—Reports state that the Schenectady Locomotive Works will increase the size of its plant by erecting a new brick addition, 76 × 280 ft., to be used as a tank and paint shop. Contractor, John McDermott.

UTICA, N. Y.—A fire in this city, Nov. 30, damaged the building at Fulton and Franklin Sts., occupied by the American Hard Wall Plaster Co., causing a loss to the stock of $10,000 and to the building of $15,000. It is stated that a new and large building will probably be erected to replace the one burned. Pres., J. R. Swan; Vice-Pres., Thos. R. Proctor.

BEAVER FALLS, PA.—It is reported that arrangements were completed Dec. 1 whereby the Boston Electric Conduit Co., now operating a new and extensive plant at Versailles, Pa., will remove its plant to this place and occupy part of the building occupied by the McCool Tube Co., and also erect additional buildings.

BURNHAM, PA.—Bids are being received for erecting an extension to the Standard Steel Works at this place, the building to be one story high, of brick and stone, and 70 × 100 ft. Contractors, William Steele & Son, 506 Walnut St., Philadelphia, Pa.

JOHNSTOWN, PA.—Reports state that the Cornwall & Lebanon Ry. Co. will erect car shops at South Fork, near this place.

PHILADELPHIA, PA.—Armstrong & Printzenhoff, 136 South 4th St., have been awarded the contract for the boiler and engine house to be erected for the Powelton Electric Co. at 40th and Chestnut Sts.

PITTSBURG, PA.—Plans are being prepared for the American Axe & Tool Co., for a number of steel factory buildings to be erected in this city, at a cost of about $200,000. Bids will soon be received. Archs., Struthers & Hannah, 4 Eighth St.

READING, PA.—We are informed that the improvements which are now being made to the plant of the Reading Crane & Hoist Works consists merely in moving the present plant into larger quarters, now in course of erection near the Philadelphia & Reading Ry. Co.'s tracks; cost of new building, $6,000. Arch., Fred. A. Barrows; Contractor, Leo Schaetzle, Reading.

WASHINGTON, D. C.—Bids are asked until Jan. 26, according to reports, for erecting a government armor factory. Offers for land, buildings and machinery for the whole plant or any part separately will be considered. Address John D. Long, Secy. of Navy.

BARNESVILLE, O.—It is reported that an addition will soon be erected to the plant of the Watt Mining Car & Wheel Co., at this place.

STAUNTON, VA.—It is reported that plans have been prepared or an abattoir to be erected in this city. Arch., Jas. D. Allen, 1017 Chestnut St., Philadelphia, Pa.

MARIETTA, O.—The bicycle rim factory of E. J. Lobdell has been destroyed by fire, causing a reported loss of $50,000; insurance, $20,000.

VALPARAISO, IND.—Reports state that a syndicate, headed by W. D. Owens, Secy. of State of Indiana, has purchased the plant of the Garden City Brick Co., west of this city, and that the largest terra cotta manufacturing plant in the country will there be established.

DETROIT, MICH.—Plans have been prepared for a brewery, boiler and engine house, etc., for the Tivoli Brewery Co., at Mack and Hulburt Aves. Arch., Louis Kamper, 10 Miners Block.

MINNEAPOLIS, MINN.—We are informed that the Minneapolis Rolling Mills, on Columbia Heights, expect to build a new addition to the plant next year, in which will be placed two open-hearth furnaces, and a plant for the manufacture of car axles; estimated cost, $100,000. Mgr., A. D. Arundel.

HALIFAX, N. S.—The chemical works connected with the plant of the People's Heat & Light Co. was damaged by fire Dec. 3, causing a reported loss of about $50,000. H. M. Whitney, of Boston, Mass., is said to be interested.

GAS PLANTS.

FLUSHING (L. I.), N. Y.—We are informed that the Flushing Gas & Electric Co., Flushing, has awarded the contract to the Berlin Iron Bridge Co., East Berlin, Conn., for the construction of a steel frame work and trusses covered with corrugated iron roofing for the generator plant.

JERSEY CITY, N. J.—Bids are asked until Dec. 13 for lighting the streets of this city with oil and gas for the year ending Nov. 30, 1898. Jas. S. Nolan, Chn. Lighting Com.; Wm. A. Tolson, Clk.

NEWARK, N. J.—Reports state that the Newark Gas Co. is about to issue $4,000,000 additional capital stock.

RICHMOND, VA.—It is reported that the council has granted permission for the extension of the city gas mains to the male orphan asylum, requiring 5,300 ft. of pipe; estimated cost, $1,085.

KALAMAZOO, MICH.—Reports state that the Kalamazoo Gas & Electric Co. has decided to spend $100,000 next spring in laying about 25 miles of mains, to cover the greater part of the city.

ST. JOSEPH, MICH.—Local papers state that a franchise has been granted by the council to the Excelsior Gas Co., which will be organized at once by Detroit capitalists. It will spend $90,000 in constructing a system of mains.

NEODESHA, KAN.—Reports state that the council has voted to issue $30,000 in bonds for the construction of a natural gas plant and water-works.

NELSON, B. C.—Reports state that the Kootenay Light & Power Co. has applied to the council for the right to erect and operate gas works.

NEW COMPANIES.—People's Gas Light & Coke Co., Buffalo, N. Y.; $3,000,000; to manufacture gas; Herbert P. Bissell, H. H. Griffin, Wm. C. Cornwell, Frank B. Baird, Wm. F. Wendit, John A. Kennedy, Fred. M. Lantz, T. G. Smith, H. St. C. Denny, Buffalo.

New England Coke & Gas Co., Boston; $17,000,000; to convert coal by the Otto Hoffman process into coke, gas, tar and ammonia sulphate; Henry M. Whitney, Boston; Emerson McMillin, 40 Wall St., New York; Stephen Peabody, Geo. G. Haven, Anthony N. Brady, Roswell P. Flower, H. H. Rogers, Wm. Rockefeller, New York; Mr. Pryn, Albany; Messrs. Widener, Elkins & Dolan, Philadelphia.

Elkland Gas & Oil Co., Elkland, Pa.; $30,000, with $3,000 paid in; Treas., Robert McCann, Elkland.

Mexican Acetylene Solar Gas Co., Topeka, Kan.; to make acetylene solar gas; Henry C. Linn, Jasper H. Moss, C. A. Linn, Topeka.

West Winfield Gas Co., West Winfield, N. Y.; $3,000; to manufacture gas; Henry H. Wheeler, William E. Hiteman, John H. Stephens, Arthur C. Hackley, Alfred Wood, West Winfield.

MISCELLANEOUS CONTRACTS.

BONDS.—New York, N. Y.—Bids are asked by the city comptroller, 280 Broadway, until Dec. 14 for the purchase of $6,243,071 of 3½% bonds.

TUNNEL—Oakland, Cal.—It is reported that this city will construct a tunnel road to Contra Costa, as the money and right of way has been secured.

CANAL.—Riverside, Cal.—Reports state that the trustees have awarded to C. A. White a contract at $4,224 to construct a canal on Monroe St., to carry storm water.

WIDENING RIVER.—Cleveland, O.—Col. Jared A. Smith, U. S. Engr., has submitted plans for the widening of Cuyahoga River, from the Lake Shore bridge to its mouth.

CANAL IMPROVEMENT.—Oswego, N. Y.—Bids are asked until Dec. 10 for improving about eight miles of the Oswego Canal. Geo. W. Aldridge, Supt. Pub. Wks., Albany.

ELECTRICAL CONDUCTORS.—New York, N. Y.—Bids are asked by the fire department, 157 East 67th St., until Dec. 15, for placing the fire alarm electrical conductors underground.

FIRE ENGINES.—New York, N. Y.—Bids are asked by the fire department until Dec. 15 for furnishing two first size steam fire engines having a Fox boiler and a La France boiler respectively.

FLUSHING TUNNEL.—Milwaukee, Wis.—Reports state that bids will soon be asked by the board of public works for the construction of the Kinnickinnic River flushing tunnel at an estimated cost of $360,000.

DREDGING.—Lake Drummond, Va.—Bids are asked by the Lake Drummond Canal & Water Co., 21 South Gay St., Baltimore, Md., until Dec. 15 for dredging in connection with the approaches at the Virginia and North Carolina ends of the company's canal, as stated in our advertising columns. J. C. Wrenshall, Ch. Engr.

STONES.—New York, N. Y.—Bids are asked until Dec. 14 for furnishing and putting in place about 15,000 cu. yds. of small cobble stones, and about 20,000 cu. yds of rip-rap stones for the construction of a bulkhead or river wall. Geo. S. Terry, Secy. Dept. Docks, Pier A.

TELEPHONE SYSTEM.—Pittsburg, Pa.—The Maryland, Pennsylvania, West Virginia Telephone & Telegraph Co. is about to organize, with a capital stock of $1,000,000, to operate throughout the three states; Milton S. Baird, Pittsburg, Pa.; J. J. Hoblitzel, Cumberland, Md.; J. M. Reynolds, Bedford, Pa.; Hitchings Bros., Frostburg, Md.

RAILWAY TIES.—Houston, Tex.—Bids are asked by the Cameron Lumber Mills Co. for furnishing hewn ties in quantities of 5,000 or more, f. o. b. cars on the T. & S. branch of M., K. & T. S. and E. T. or H. E. & W. T. railways. Specifications 6 × 8 × 8, square edge, no heart restrictions; no loblolly or short straw will be received.

PUBLIC IMPROVEMENTS.—St. Louis, Mo.—A commission of St. Louis officials to investigate the public improvements of Eastern cities has decided that it will leave St. Louis on Dec. 11. The itinerary will include Detroit, Buffalo, Boston, New York, Philadelphia and Washington. The cities will be visited in the order named, the northern cities first. Robert E. McMath, Pres. Bd. Pub. Improvements.

CRIBWORK BULKHEAD.—Rikers Island, East River, N.Y.—The following bids were opened by the department of docks, Dec. 2, for building a cribwork bulkhead extension on top of present cribwork at Rikers Island, East River:

E. S. Walsh, 132 Pearl St. (accepted)	$18,000
B. F. Jones, city (informal)	18,300
Shearin & Preston, 11 Broadway	25,875
Gildersleeve & Rolf, 39 Cortlandt St.	27,423

STEAMER, ORE DOCKS BURNED, ETC.—Escanaba, Mich.—The steamer "Nahant" and Oil Dock No. 4 of the Chicago & Northwestern Ry., at Escanaba, were destroyed by fire, Nov. 30. The loss on the dock will approximate $150,000, and includes 28 ore cars and 5,000 tons of ore. The "Nahant," which was burnt to the water's edge, is a loss of $40,000. She was 213 ft. long, 35 ft. beam and 16 ft. deep, with a tonnage of 1,204.

IRON CAGE.—Lansdowne, Pa.—H. L. Warren, Secy. County Comrs., informs us that the following bids were received Dec. 3 for the construction of an iron cage, as advertised in Engineering News:

Albanus L. Smith & Co., Philadelphia	$178
Stiffel & Freeman, Philadelphia	145
Champion Iron Co., Kenton, O.	75
Dover Boiler Works, Dover, N. J.	165
Van Dorn Iron Works Co., Cleveland	63 and 69
Schuylkill Bridge Works, Phoenixville, Pa.	290
Bellefontaine Bridge & Iron Co., Bellefontaine, O.	142

WALL.—Boston, Mass.—The following bids were received Nov. 29 for constructing a wall along Ipswich St. and using the south abutment of the bridge at Charlesgate West as a centre piece; B. W. Wells, Supt. Sts:

	Wall.	Abutments.
Collins & Hain	$5,500	$33,545
McHale & O'Connor	5,952	44,535
Jones & Meehan	5,600	41,975
W. H. Ryan & Co.	3,809	38,737
Foley & Coughlin	5,019	36,197
A. & E. Cramm	3,900	36,080
Ross & Fowler	5,134	35,942
H. P. Nawn	4,927	33,105
C. H. Wellington & Co.	4,000	32,000
Holbrook, Cabot & Daly	4,780	31,100

CONTRACT PRICES.

VIADUCT.—New York, N. Y.—The following bids were received by Louis F. Haffen, Comr. St. Improvements, 23d and 24th Wards, Nov. 30 for constructing a viaduct over the N. Y. & H. R. R. at Melrose Ave.:

Bids Received at New York, N. Y., Nov. 30, for Constructing a Viaduct.

Quantities.		King Bridge Co., Cleveland, O., $194,560.	O'Brien, McHale & O'Connor, $158,160.	R. H. Hood, St. Paul Building, $182,410.	Stephens & Hourigan, 44 B'way, $164,051.	W. J. Rodgers, 26 Cortlandt St., $164,324.	Jos. A. Flynn, 35 Warren St., $183,812.	Elmira Bridge Co., Elmira, N. Y., $167,477.	Gratton & Jennings, 11 Broadway, $211,501.	T. H. Riddle & Co., New York, $190,417.	Manhattan Constn Co., 11 Broadway, $176,498.
Concrete	4,410 cu. yds.	$0.75	$0.30	$0.75	$0.50	$0.75	$0.50	$0.60	$0.60	$0.53	$0.50
Borrowed fill	4,000 "	.25	.20	.30	.50	.01	.15	.25	.60	.28	.25
Foundation piles	250 each	7.00	4.50	2.10	1.00	2.00	1.00	1.00	7.35	6.00	.10
Concrete	1,900 cu. yds.	6.25	5.50	6.00	6.00	7.00	6.50	7.00	7.75	7.24	6.25
Masonry	1,020 " "	22.50	22.00	19.00	17.00	14.00	18.50	14.00	22.50	17.10	13.50
Back walls	3,900 lin. ft.	1.25	1.50	1.75	1.25	1.20	1.50	1.00	1.50	1.17	1.70
Masonry	1,520 cu. yds.	14.00	7.25	13.50	11.00	12.00	14.00	12.00	18.00	13.50	13.50
Granite	380 ft.	1.50	1.00	1.50	1.25	1.20	1.50	1.50	1.50	1.25	1.70
Masonry	690 cu. yds.	10.00	7.25	8.50	6.00	7.50	7.50	8.00	9.75	7.99	8.50
"	110 " "	10.00	10.00	8.50	15.00	12.00	15.00	14.00	14.65	11.35	11.00
" parapet	1,760 ft.	1.50	1.50	1.90	1.50	1.20	2.00	1.50	1.70	1.81	1.70
Coping	1,390 ft.	1.50	1.50	1.90	1.50	1.60	1.75	1.10	1.80	1.69	1.70
" granite	1,270 "	1.50	1.50	1.90	1.50	1.50	1.75	1.00	1.70	1.69	1.70
" limestone	510 "	1.00	1.10	1.50	1.00	1.00	1.00	1.00	1.50	1.25	1.50
"	240 "	1.50	1.50	1.90	3.00	1.50	3.00	3.00	3.70	1.69	1.70
Stone newels	850 "	2.50	3.00	2.75	3.00	2.00	3.50	3.00	4.25	3.24	1.70
Capstone	900 "	1.50	1.50	1.75	1.25	1.00	1.75	1.25	1.35	1.18	1.50
Four-axed	100 "	.75	.50	.80	.50	.50	.50	.00	.50	.53	.25
Six-axed	100 "	1.00	.60	.90	.60	.75	.60	.70	.65	.63	.35
Eight-axed	100 "	1.25	.70	1.00	.75	1.00	.80	.80	.80	.75	.50
Brick	100 sq. yds.	10.00	12.00	9.50	15.00	12.00	12.50	12.00	12.00	8.50	11.00
Concrete paving	700 " "	6.25	5.00	6.00	5.00	7.00	6.00	6.50	8.50	6.00	6.00
Cement	100 bbls.	2.00	2.25	2.00	2.00	2.00	2.25	2.25	2.50	2.00	2.25
Granite paving	840 sq. yds.	2.00	1.90	1.75	2.00	2.00	1.90	2.00	2.50	2.80	2.50
" curbing	510 sq. ft.	1.60	1.25	1.10	1.25	1.50	1.00	.90	.90	1.50	1.25
Gran. cor. sewer outlets	2 each	110.00	75.00	72.00	30.00	65.00	175.00	100.00	32.00	88.00	30.00
Granolithic pavement	690 sq. yds.	2.00	2.25	1.75	3.00	2.50	2.70	1.60	2.50	1.90	1.60
Asphalt paving	7,570 " "	2.50	2.30	2.00	2.00	2.00	2.80	2.45	3.00	3.00	2.30
" "	1,680 " "	2.75	2.30	2.00	2.50	2.00	2.50	3.00	3.00	3.00	2.20
Steel	2,058,000 lbs.	.028	.0258	.025	.023	.0241	.025	.0235	.026	.0251	.027
Steel beams, etc.	223,800 "	.0265	.0263	.025	.023	.0241	.026	.0235	.026	.0255	.027
Railing	1,104 ft.	4.25	4.00	5.50	4.00	4.00	6.50	3.70	4.25	10.00	4.00
Hand railing	125 "	1.50	.90	.65	1.00	.75	2.00	1.00	1.10	3.00	1.75
Fascia	1,104 "	1.75	1.60	3.50	1.60	1.50	2.00	1.40	.75	2.00	1.75
Gas pipe	1,890 lin. ft.	.50	.15	.25	.25	.20	.56	.25	.30	.60	.50
Lamp posts: Single light	26 each	20.00	30.00	40.00	35.00	12.00	25.00	20.00	60.00	100.00	11.00
And clusters	8 "	100.00	60.00	50.00	50.00	50.00	40.00	200.00	125.00	40.00	
Extra coat paint (lump sum)		750.00	1150.00	825.00	750.00	500.00	500.00	750.00	1,000	750.00	600.00

STORM DRAIN.—Riverside, Cal.—The following bids were received by the city trustees Nov. 20 for constructing a storm drain in Monroe St.:

Bidder.	Excavation, a cu. yd.	Concrete, a sq. ft.	Culvert, a ft.	Total.
C. F. Simmons	$0.15	$0.07	$3.25	$4,569
C. P. Hancock	.15	.08½	5.60	5,468
Dyer & Korst	.13	.05¾	5.75	4,211
F. W. Whittier	.125	.08½	6.50	5,666
C. A. White	.15	.05½	7.71	4,117
Gray Bros & Ward	.19	.06¾	6.20	4,786
Ezra Sheldon	.17	.05¾	4.95	3,750

SAND.—Delaware City, Del.—Maj. C. W. Raymond, U. S. Engr., Philadelphia, received the following bids Nov. 26 for furnishing and delivering 150,000 cu. yds. of sand at the government wharf in this city, as advertised in Engineering News:

	A cu. yd.
Delaware Construction Co., Wilmington, Del.	$0.24
Patrick Nary & David Cannell, Wilmington	.37
Charles Warner Co., Wilmington	.35
R. H. Hood, New York city	.243
James H. Crowgill	.379
The Van Brunt Co., Philadelphia	.22
Robert Patterson, Philadelphia, Pa.	.40
Geo. W. Buch, Philadelphia	.94
Chas. E. Ellicott, Baltimore	.1859
Frank H. Caven, Philadelphia	.295

ELECTRIC LIGHTING, POLES, ETC.—Jersey City, N. J.—The following bids were received by the board of freeholders Nov. 23 for lighting with electricity the Hudson County Boulevard, and for also furnishing poles, wire, etc.; Edward W. Wooley, Clk. Bd.:

Bids Received at Jersey City, N. J., Nov. 23, for Electric Lighting, Poles, Etc.

Bidder.	Each light, 5-year contract.	Each light, 7-year contract.	Each light, 10-yr. contract.	Each: Line pole, set.	Each: Light pole, set.	Each: L't furnished.	Wire, a ft.
Joseph Randall & Co., Kearney, N. J.	$75.00	$69.00	$67.00	$7.50	$10.00	$25.00	$0.04½
Hudson County Light Co., Hoboken, N. J.	58.40	62.05	65.00	5.00	5.00	15.00	.01¾
United Gas Improvement Co. (gas)	35.00	35.00	35.00	....	....	....	...
F. M. Fitzpatrick & Co., Hoboken, N. J.	95.00	90.00	87.00	25.00	25.00	50.00	.20
Jersey City Electric Light Co., Jersey City, N. J.	86.00	84.00	80.00	9.86	14.25	16.50	.03

PUMPING MACHINERY.—Cincinnati, O.—The following bids were received by the water commissioners Nov. 30 for constructing, delivering and erecting three self-contained vertical triple expansion crank and flywheel pumping engines with a capacity of 30,000,000 gallons, each, daily, as advertised in Engineering News; Aug. Herrman, Pres.; Chas. G. Roth, Clk.:

Bidder.	Three pumps.	Electric travel'g crane.	Extra pump.
Southwark Fdry & Machine Co.	$440,000	$10,000	$150,000
Lk. Erie Eng'r'ng Wks—Design 1	370,500	10,150	123,500
" " " " 2	340,500	10,150	113,500
" " " " 3	296,250	10,150	98,750
De La Vergne Ref. Mchn. Co.	454,608	9,050	151,536
Ed. P. Allis Co.—Design A.	475,000	10,000	155,000
" " " A.	460,000	10,000	155,000
" " " C.	460,000	10,000	150,000
" " " D.	445,000	10,000	145,000
Lane & Bodley Co., Cincinnati	387,000	7,500	119,900
Holly Mfg. Co.—Design A.	407,610	6,800	135,900
" " " B.	394,215	6,800	131,405
Laidlaw-Dunn-Gordon Co.*	438,000	7,000	156,500
" " " " †	423,000	7,000	156,000
A. G. Moore & Co., Cincinnati	379,000	10,000	125,000

* Design 1—Differential. † Design 2—Single acting.

PIPE SEWERS.—Mishawaka, Ind.—Wm. M. Whitten, Engr. in charge, 125 North Lafayette St., South Bend, Ind., informs us that the following bids were received Nov. 29 for constructing 820 ft. of 18-in. pipe sewer with an average cut of 10½ ft., through gravel and sand:

C. J. Fink, Goshen, Ind.	$539.14
Robert, Hoban & Roach, South Bend, Ind.	739.60
J. A. Madlem, Goshen, Ind. (accepted)	524.80
Edward Conner, Chicago, Ill.	820.00
Defrees & Rankert, Mishawaka, Ind.	655.60

PIPE SEWER.—San Francisco, Cal.—The City Street Improvement Co. has been awarded the contract for constructing an 8-in. pipe sewer in Clement St., at 67 cts. a ft.

DREDGING.—Boston, Mass.—The New England Dredging Co. submitted the lowest bid to the harbor and land commissioners for dredging a channel at South Boston at 26 cts. a cu. yd. Aug. B. Martin was the only other bidder, at 27 cts. a cu. yd.; total, $9,300.

VALVE.—Nashville, Tenn.—Local papers state that the Chapman Valve Mfg. Co., 72 Kilby St., Boston, submitted the lowest bid Dec. 1 for furnishing 24 6-in. valves at $9.25 each.

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STREET LIGHTING.

BINGHAMTON, N. Y.

Sealed proposals will be received by the City of Binghamton, N. Y., up to December 20, 1897, at 7:30 p. m. for lighting the city with 175 or more naphtha lamps, every night in the year from dusk until daylight, the city to furnish and set lamp posts, the contractor to furnish lamps, supplies, and care for same. Bids to be for one, two and three year contract and to name price for ordinary naphtha burner and Welsbach burner. Contractor shall guarantee ordinary burner to furnish light of twenty-five candle-power; Welsbach burner seventy-five candle power. All proposals shall be directed to Burr W. Mosher, City Clerk, and shall be marked "Proposals for Lighting." The City reserves the right to reject any or all bids. The city also reserves the right, in case it establishes a municipal lighting plant, to terminate the naphtha lighting contract on sixty days' notice.

8-2t BURR W. MOSHER, City Clerk.

SEWERS.

SHELBY, OHIO.

Bids for building about 3½ miles of sewers, 12 and 18-inch, will be received until noon of December 27, 1897.

48-2t W. F. SONNANSTINE, Clerk.

FIRE HYDRANTS.

WATER DEPARTMENT,
LEBANON, PA., Dec. 4, 1897.

Sealed proposals will be received for fifty-two (52) Fire Hydrants, by the Board of Water and Lighting Commissioners of the City of Lebanon, Pa., until 12 o'clock, noon, December 30, 1897.

Specifications and further information will be furnished on application to the Board. The right to reject any or all bids is reserved.

J. R. BECKLEY,
H. P. WEITZLE,
C. N. SEIDEL,
Commissioners.

Attest: J. D. KERR, Secy.

49-1t

TOWER AND TANK.

MAYOR'S OFFICE,
HOPE, ARK., November 23, 1897.

Sealed proposals will be received at the office of the Mayor, Hope, Ark., until 6 o'clock P. M., Wednesday, Dec. 15, 1897, for the construction of a Steel Tower and Tank, as per specifications on file in the office of the Mayor.

The right is reserved to reject any and all bids.

JOHN T. BARR, Mayor.
CHAS. F. STURTEVANT, Engr.,
49-1t St. Louis, Mo.

DREDGING.

No. 21 S. GAY ST.,
BALTIMORE, MD., Dec. 2, 1897.

Bids will be received at this office until the 15th inst. for dredging required in the construction of the channel approaches at the Virginia and North Carolina ends of the Lake Drummond Canal and Water Company's canal. Specifications and plans can be seen at this office.

The right to reject any or all bids is reserved.

J. C. WRENSHALL,
49-1t Chief Engineer.

TREASURY DEPARTMENT, Office Supervising Architect, Washington, D. C., November 29th, 1897. Sealed proposals will be received at this office until 2 o'clock p. m., on the 20th day of December, 1897, and opened immediately thereafter, for all the labor and materials required for furnishing and placing complete all the Iron Vault and Closet Doors in the U. S. Post Office, Court House and Custom House building at MILWAUKEE, WIS., in accordance with drawings and specification, copies of which may be had at this office or the office of the Superintendent at Milwaukee, Wis. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Vault and Closet Doors for the U. S. Post Office, Court House and Custom House, Milwaukee, Wisconsin," and addressed to the Supervising Architect.

49-2t

U. S. ENGINEER OFFICE, Montgomery, Ala., November 18, 1897.—Sealed proposals in triplicate for dredging at entrance to Pensacola Bay, Fla., will be received here until 12 o'clock noon, December 13, 1897, and then publicly opened. Information furnished on application. F. A. MAHAN, Major Engrs.

47-3t

U. S. ENGINEER OFFICE, 1637 Indiana Ave., Chicago, Ill., Nov. 11, 1897.—Sealed proposals in triplicate, for design, manufacture and erection of superstructure of five steel highway BRIDGES across line of Illinois and Mississippi Canal, between Bureau and Wyanet, Ill., will be received here until 12 noon, Central time, December 20, 1897, and then publicly opened. Information furnished on application here or to Assistant Engineer JAMES C. LONG, Tiskilwa, Ill. W. L. MARSHALL, Maj., Engrs.

46-4t

HALL OF RECORDS.

TO CONTRACTORS.

Proposals for furnishing materials and performing work in the erection of Hall of Records Building, in New York City, pursuant to chapter 59, Laws of 1897, as amended by chapter 793, Laws of 1897, will be received at the office of the Mayor, in the City Hall, in the City of New York, until Thursday, December 14, 1897, at 12 o'clock m. For further particulars see copy of "City Record," New York.

49-1t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 24, 1897.—Sealed proposals will be received at this office until 2 o'clock p. m. on the 15th day of December, 1897, and opened immediately thereafter, for all the labor and materials required for the improvements to the grounds of the U. S. Post Office, Court House, etc., Charleston, S. C., in accordance with the drawing and specification, copies of which may be had at this office or the office of the Superintendent at Charleston, S. C. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Improvement to Grounds of the U. S. Post Office, Court House, etc., Charleston, S. C.," and addressed to the Supervising Architect.

48-2t

U. S. ENGINEER OFFICE, Charleston-Kanawha, W. Va., Nov. 20, 1897.—Sealed proposals for chains and clevises of special make and strength for movable dams on Great Kanawha River will be received here until December 20, 1897, 2, p. m., standard Eastern time, and then publicly opened. Information furnished by Addison M. Scott, Resident Engineer, at above office. W. H. BIXBY, Major Engrs.

47-4t

U. S. ENGINEER OFFICE, 166 Granby St., Norfolk, Va., Nov. 15, 1897.—Sealed proposals for furnishing and setting up an ELECTRIC LIGHTING PLANT at Fort Monroe, Va., will be received here until 12 o'clock, noon, December 23, 1897, and then publicly opened. Information furnished on application. THOS. L. CASEY, Capt., Engrs

48-teow

HOLIDAY RATE SOUTH.

The Southern Railway takes pleasure in announcing for the Christmas and New Year's holidays, 1897-98, reduced rate round trip tickets to all points south at one and one-third first-class fares for the round trip. Tickets on sale December 22d to 25th, inclusive, also December 30th-31st, 1897, and January 1st, 1898; extreme limit, January 4th, 1898.

To students of schools, colleges and universities presenting certificates of such institutions, tickets will be sold December 16th to 25th, inclusive—final limit, January 4th, 1898.

Your particular attention is called to our perfect through car service from New York to all points south, southeast and southwest, viz.:

No. 37, "Washington and Southwestern Limited," leaving New York daily via Pennsylvania Railroad, 4.20 p. m., handles through cars as follows:

New York to Atlanta, Montgomery, Mobile and New Orleans.

New York to Atlanta, Birmingham and Memphis.

New York to Asheville and Hot Springs, N. C. (through the beautiful "Land of the Sky"), Knoxville, Chattanooga and Nashville.

New York to Charlotte, Columbia, Savannah, Jacksonville and Tampa.

Richmond to Augusta, Ga., forming, in connection with the Tampa car, continuous Pullman service New York to Augusta, Ga.

Elegant Pullman and Vestibuled Coaches.

This is the only train south providing dining car service the year round.

No. 35, "U. S. Fast Mail," leaves New York 12.10 midnight, daily.

Pullman drawing-room sleeping car to Atlanta, Montgomery, Mobile and New Orleans.

New York to Charlotte, Columbia, Savannah, and Jacksonville, connecting for all points in Florida.

Elegant Pullman day coach Washington to New Orleans without change.

For further information call on or address Alex. S. Thweatt, Eastern Pass'r Agent, 271 Broadway, New York.

CHICAGO TO DENVER.

Via Omaha and Lincoln, Nebraska.

In 1867 the first railroad from Chicago to Omaha was completed, and it was considered fast time when the distance of 490 miles was covered in twenty-four hours. Now the same distance is run by the trains of the Chicago and Omaha line of the Chicago, Milwaukee and St. Paul Railway, in less than sixteen hours, and the whole distance of 1,069 miles from Chicago to Denver is run between 10 o'clock p. m. of one night and 7:45 a. m the second morning.

The finest sleeping cars are run daily from Chicago through to Denver, without change, making connections at Denver Union Depot with trains of all roads departing for principal points in Colorado, Utah, New Mexico, Nevada and California.

The Scenic Route of America is through "the heart of the Rockies," in Colorado, and the best route to Colorado is via the Chicago, Milwaukee and St. Paul Railway by way of Omaha and Lincoln, Nebraska. All coupon ticket agents sell tickets via this route.

48-10t

EMBANKMENT.—Allegheny, Pa.—W. E. Howley has been awarded the contract for 25,000 cu. yds. of grading in Davis Ave. at 31 cts. a cu. yd.; total, $7,750. Chas. Geyer, Mayor.

STONE SUBSTRUCTURE.—Kansas City, Mo.—The county commissioners received Nov. 27 a bid for constructing a stone substructure to contain 300 cu. yds. for a bridge over the Bone Branch at Troost Ave., from C. W. Dobbins, Pleasant Hill, Mo., at $3.65 a cu. yd.

BRIDGES AND ABUTMENTS.—New York, N. Y.—Louis F. Haffen, Comr. St. Improvements for 23d and 24th Wards, received the following bids Dec. 2 for constructing bridges and abutments at the crossings of Gerard Ave., Walton Ave. and River Ave., and the New York Central & Hudson River R. R., and of Fort Independence St. and the New York & Putnam R. R.:

Bids Received at New York, N. Y., Dec. 2, for Bridges and Abutments.

Quantities.	W. J. Rodgers, 26 Cortlandt St.	Stephens & O'Rourke, 44 B'way.	Gratton & Jennings, 11 B'way.	Jos. A. Flynn, 35 Wall St.	R. H. Hood, St. Paul Bldg.	O'Brien, McHale & O'Connor, 258 B'way	A. C. Gildersleeve, 39 Cortlandt St.	King Bridge Co., 501 5th Ave.
Earth excavation ..... 3,210 cu. yds.	$0.40	$0.50	$0.40	$0.50	$0.40	$0.30	$0.50	$0.40
Rock excavation ..... 2,260 " "	2.00	1.25	1.90	1.50	1.00	1.50	1.50	1.25
Filling ..... 6,050 " "	.01	.50	.35	.20	.30	.25	.20	.20
New curb ..... 420 lin. ft..	.50	.60	.80	.50	.75	.60	.60	.60
Flagging ..... 1,670 sq. ft...	.20	.30	.20	.20	.25	.25	.20	.20
Concrete ..... 650 cu. yds.	7.00	7.00	7.50	6.50	6.00	6.00	6.50	6.50
1st-class masonry ..... 60 " "	27.00	25.00	75.00	33.75	54.00	30.00	30.00	30.00
2d " " ..... 4,000 " "	8.00	7.00	7.75	7.50	9.00	7.25	7.00	8.50
4th " " ..... 80 " "	5.00	5.00	5.00	3.00	5.00	3.00	3.00	4.50
Steel ..... 1,325,000 lbs.....	.025	.026	.03	.025	.032	.027	.026	.032
Railing ..... 700 lin. ft..	1.50	1.50	2.50	2.00	3.25	2.00	2.25	2.70
Lamp posts ..... 16 each...	65.00	65.00	55.00	40.00	50.00	45.00	50.00	125.00
Asphalt paving ..... 2,160 sq. ft...	2.50	3.00	2.95	2.80	2.50	2.50	2.50	2.75
Total	$84,931	$86,208	$97,842	$84,452	$99,844	$84,770	$82,618	$98,387

REMOVING SNOW.—Philadelphia, Pa.—The following bids were received Nov. 30 for removing the snow from around the city hall and from bridges: Clark & Co., 37½ cts. a load for single team; 72½ cts. a load for double team; for removing the snow from other streets, 37¼ cts. a single team, and 74½ cts. a double team; R. J. & David Peoples, 38 cts. and 84 cts.; 58 cts. and $1.04 respectively; Geo. W. Ruch, for removing the snow from Market, Chestnut and other streets, 75 cts. and $1.25 respectively; J. R. Lewright, removing from around city hall and bridges, 39 cts. and 78 cts. respectively; Daniel J. McNichol, around city hall, etc., 34 cts. and 79 cts., for other streets, 33 cts. and 77 cts. respectively.

LEVEE WORK.—New Orleans, La.—John J. Frawley has been awarded the following contract for work on the Lizardi St. levee: Hauling, 48¾ cts. a cu. yd. for earthwork hauled more than 500 ft.; 19 cts. a cu. yd. for earth within 500 ft. of levee, and $24.75 an M. for lumber.

CRUSHED STONE.—Wilmington, Del.—David Connell, Wooddale, Del., has been awarded the contract for furnishing 300 cu. yds. of broken stone at 98 cts. a cu. yd.

INDUSTRIAL NOTES.

MR. H. D. WILLIAMS, Norwalk, O., has bought out the Van Nette Water Purifier Co., manufacturer of pumps, etc.

THE ROGERS LOCOMOTIVE WORKS, Paterson, N. J., received an order Nov. 30 for 15 mogul locomotives from the Government of Japan.

THE COLUMBIA MFG. CO., Binghamton, N. Y., has secured a contract to furnish the machinery, etc., for an electric light plant in Kuschegua, Pa.

THE PENNSYLVANIA R. R. CO. is building 500 new freight cars at its shops in Altoona, Pa., and 15 new large freight engines at the Juniata shops, in the same city.

THE SIMMONS HARDWARE CO., St. Louis, Mo., is reported to have purchased the stock and plant of the E. C. Meacham Arms Co., capitalized at $300,000. Mr. E. C. Meacham, the founder, died three years ago.

THE SECKNER CONTRACTING CO., Chicago, Ill., has been awarded the contract for a water-works and electric light system at Hobart, Ind., and for another at Gas City, Ind. Both plants are to be completed before March 1, 1898.

THE FISHKILL LANDING MACHINE WORKS, Fishkill Landing, N. Y., has a contract from the Roseton Brick Co. to build a 500-HP. Fishkill-Corliss engine and boiler, a number of brick-making machines and a large amount of shafting.

THE VAN CHOATE ELECTRIC CO., Foxboro, Mass., has awarded the contract for tools and machinery, amounting to $100,000, to the Niles Tool Works Co., Hamilton, O. The machinery is for use in its western factory as well as in the Foxboro works.

THE MARCY MFG. CO., of Ashland, has acquired the property of the North Furniture Co., at Bluffton, Ind., and will move its plant for the manufacture of iron pumps, steel windmills and tanks to that place. About 50 men will be employed, according to report.

THE AMERICAN BRIDGE WORKS, Chicago, Ill., is doing considerable bridge work for the Atchison, Topeka & Santa Fe Ry., the amount of work on that line during the present year amounting to about 7,000 tons. The erection is being done by the railway company.

ELDER, DEMPSTER & CO., have been reported by Mr. F. B. Girdlestone, of Bristol, England, as intending the establishment of a line of steamers between Boston, Mass., and Avonmouth, England, sailing on fixed dates, at intervals of about two weeks, and continuing for five years.

THE PUSEY & JONES CO., Wilmington, Del., is reported to have received an order from the San Rafael Paper Mills, San Rafael, Mexico, through Mr. Jose Sanches Ramos, Vice-Pres., for a large Foundrinier paper machine, weighing 450,000 lbs. and valued at about $50,000.

M. T. LEWMAN & CO., Louisville, Ky., and Atlanta, Ga., have a contract for 142 buildings for the Mobile & Ohio R. R. extension from Columbus, Miss., to Montgomery, Ala. These buildings consist of shops, round houses, depots, freight houses, water tanks, section houses, sand houses, etc.

THE SPANISH-AMERICAN LIGHT & POWER CO., New York and Havana, Cuba, recently had a judgment granted against them for $6,000 in favor of Mr. Francisco R. Guzman, of New York, who has now applied for permission to begin an action to dissolve the company on the grounds of insolvency.

THE MICHIGAN PIPE CO., Bay City, Mich., has been awarded a contract by the Board of Control of the city of Cleveland, O., for furnishing creosoted paving blocks of pine and tamarack, creosoted pine plank and wheel guards for the Pearl St. viaduct in that city. The blocks are cut 5 ins. long, 6 to 12 ins. wide, and 3⅞ ins. thick, planed on one side.

THE STANDARD BOILER WORKS, the Union Boiler Works and the Lebanon Chain Works, all of Lebanon, Pa., are reported to have secured large contracts from the U. S. government for a supply of buoys and chains. The order is of such magnitude as to require a large increase in the working force.

THE POST & JACOBI CO., Chicago, Ill., has made an assignment to Mr. Frederick Bondy, who will sell to the highest bidder, Dec. 15, the whole or any part of the remaining assets, consisting of drawing materials, architects' supplies, surveying instruments, blue-print paper, fixtures and machinery.

THE CAHALL SALES DEPARTMENT, Pittsburg, Pa., is reported to have recently received the largest amount of orders in a single day on record in the boiler manufacturing business. On Nov. 18, orders for 18 boilers, aggregating 13,000 HP. are said to have been received, of which 6,500 HP. was for the Carnegie Steel Co.

BLOHM & VOSS, Hamburg, Germany, are said to have a contract with the North-German Lloyd Steamship Co. to cut in two and lengthen by 60 ft. the "Spree," of that line, which sailed from New York for Bremen Nov. 30. New engines will also be supplied and the vessel will be generally overhauled. Her length will be increased from 462 to 522 ft.

THE GENERAL ELECTRIC CO., Schenectady, N. Y., has acquired a considerable amount of land, by purchase and by lease, adjoining its present property. The purchase includes the former property of the Gilbert Car Works, and the main building on this land, 500 × 80 ft., built of brick with a frame addition, has been taken possession of by the General Electric Co.

COLLINS & NORTON, Springfield, Mass., New England agents Pittsburg Bridge Co., have secured contract for a steel store house building for the H. B. Smith Co., Westfield, Mass.; the building to be 120 × 60 ft., with a truss roof, and to be built entirely of steel. Collins & Norton have also orders for three plate girder railway bridges for the Wiscassett & Quebec R. R. in Maine.

THE AMERICAN AIR POWER CO., Rome, N. Y., has sold to a Danish syndicate the right to use its patents as applied to the Hardie air motor, according to report. Mr. Christian Dons, of Copenhagen, Denmark, Chief Engineer of the "Heckla," has been in Rome making the necessary arrangements. Mr. Charles M. Williams of the latter city, will accompany him to Denmark on his return to install the machinery.

THE ASHLAND IMPROVEMENT CO., Ashland, Ky., has made an assignment to Mr. Willis L. Ringo for the benefit of its creditors. The property includes the Ashland & Catlettsburg St. Ry., Cliffeside Park and other lands of the company which is capitalized at $87,500. Other properties included in the assignment are: The Kentucky Iron, Coal & Mfg. Co., capital, $186,000, and the German Mining & Mfg. Co., capital, $22,000.

THE STEEL STORAGE & ELEVATOR CO., Connersville, Ind., has removed its offices to the Guaranty Bldg., Buffalo, N. Y. The company, which builds elevators and mills on the steel tank principal, recently completed the new electric elevator in Buffalo Harbor. It has built over 40 steel elevators in the five years of its existence, and has under way one with a capacity of 1,500,000 bu. for the Canadian Pacific Ry., at Fort William, Ont.

J. PIERPONT MORGAN & CO., New York, have effected a consolidation of the Equitable Gas Light Co., the Central Union Gas Light Co., the New York & East River Gas Light Co. and the Central Gas Light Co. of Morrisania, with a total capitalization of $30,000,000. This combination has absorbed the acetylene rights purchased by the Equitable Gas Light Co. in 1895, and the New York Acetylene & Carbide Co., with a capital stock of $7,000,000.

THE BOND STEEL FENCE POST CO., of Adrian, Mich., has recently changed management, the present officers being: Mgr., Walter Clement; Secy., Ira Waterman; Treas., Seymour Howell. This firm reports a large number of orders from fence manufacturers in different parts of the country, and that a number of railways have adopted the Bond post as standard. The company has also a four years' contract with the U. S. Government for furnishing their posts for supporting letter boxes.

THE A. & P. ROBERTS CO., Philadelphia, was the lowest bidder, says a press report, on a bridge to be built by the government of Holland over the Yssel River, near Westevoort, the amount of its bid being $474,000, which was $13,000 less than its competitors, all of whom were European firms. Mr. C. C. Schneider, M. Am. Soc. C. E., Chief Engineer of the Bridge & Construction Department of the company, was sent to Holland about a month ago to make an estimate on the projected work.

THE MICHIGAN-PENINSULAR CAR CO., Detroit, Mich., has been awarded a contract for 200 new box cars for the Columbus, Hocking Valley & Toledo R. R. Co. Barney & Smith, Dayton, O., and the Ensign Mfg. Co., Huntington, W. Va., have each been awarded a contract for 150 new box cars for the same railway. The 500 cars are to replace a similar number leased from the Railroad-Equipment Co., New York. The lease expires Jan. 1. The cars will be of 30 tons capacity, and will have all modern improvements.

THE A. & P. ROBERTS CO., Philadelphia, Pa., will open a branch office, Dec. 15, in the Brazer Building, 27 State St., Boston, Mass.; the existing agency for the sale of beams and structural materials, held by Messrs. Harrington, Robinson & Co., 125 Milk St., Boston, expiring. The office will be under the direct control of the officers of the company and Mr. William B. Ogram, sales agent, will be in charge.——Mr. Frederick Snare, Secretary, has transferred his office from Philadelphia to the American Surety Building, 100 Broadway, New York.

HARLAND & WOLF, Belfast, Ireland, are reported to have the contract to build a third modern twin-screw steamer for the Holland-American Steamship Co. The vessel will be called the "Ryndam," and will be 550 ft. long, 62 ft. beam and 43 ft. deep. She will carry 12,000 tons of cargo and will be similar to the "Rotterdam," which was placed in commission a few months ago. There will be accommodations for 200 first-cabin and 150 second-cabin passengers. The firm also has a contract to build the "Staatendam," which is now under construction.

THE ELECTRIC STORAGE BATTERY CO., Philadelphia, has a contract to furnish 200 cells, each weighing about 1,200 lbs., for the Buffalo Ry., which will install at once a series of accumulators in connection with the steam power developed at the Niagara St. power house, and the water power transmitted from Niagara Falls over the lines of the Cataract Construction Co., thus equalizing the pressure on the lines at all times and resulting in a saving of fuel. The cells will be contained in a fireproof building, 40x70 ft., adjoining the company's present power plant on Niagara St.

THE SIEMENS & HALSKE ELECTRIC CO., on Oct. 12, celebrated the fiftieth anniversary of the establishment of the business. In 1847 the firm of Siemens & Halske began a small telegraph construction business in Berlin. It is now said to employ 15,000 persons, having works in Berlin, Charlottenburg, London, Vienna and St. Petersburg, and owns the Kedabeg copper mine in the Caucasus Mountains. Mr. Karl von Siemens has given 1,000,000 marks as a fund for the benefit of the employees. The Siemens & Halske Electric Co. of America has offices at 98 Jackson St., Chicago.

THE TOLEDO FOUNDRY & MACHINE CO., Toledo, O., is now building a 40-ton steam shovel to go to New Mexico, and Mr. Wuerfel, Gen. Mgr., advises our representative that the company is very busy at present in its repair department for dredges, including work for the U. S. Government. Among shipments recently made are two 1½-yd. dipper narrow-gage steam shovels, weight 40 tons each, to Tokio, Japan, and a 2¼-yd. dipper, guaranteed to handle 3,000 yds. in 10 hours, weight 70 tons, to Thomas A. Edison, to be used at Edison, N. J.

THE NEW ENGLAND COKE & GAS CO., Boston, Mass., is the name of a new organization formed by the consolidation of the Brookline Gas Co., the Dorchester Gas Co., the Jamaica Plains Gas Co., the Bay State Gas Co., the Boston Gas Light Co., the South Boston Gas Light Co. and the Roxbury Gas Light Co., all located within the metropolitan district. Bonds to the amount of $14,000,000 will be issued and the syndicate intends to build 1,200 new coke ovens. Among the underwriters of the bonds are Emerson McMillan & Co., R. P. Flower & Co. and Hollister & Babcock.

THE CHASE CONSTRUCTION CO., Majestic Bldg., Detroit, Mich., reports that its work on the Dayton & Western Electric Railway is progressing rapidly. The company expects shortly to begin work on an electric line from Indianapolis to Greenwood, a distance of 30 miles, the contract for which will amount to $160,000. Mr. Fisher, Pres., advises us that they have recently placed one order for 360,000 lbs. of copper wire with the Western Electric Co., of Chicago. This company has recently completed an electric lighting plant at Carey, O., and will complete a combination electric light and water-works plant at Romeo, Mich., about Jan. 1, 1898.

THE FRONTIER IRON WORKS, Detroit, Mich., is introducing an improved upright gasoline engine for 10 HP. or less, and Mr. Geo. A. True, formerly in charge of the Engineering Department of the Whiting Foundry Equipment Co., Chicago and Harvey, Ill., who is now associated with these works, advises our representative that this engine will be placed on the market within 60 days. For plants requiring from 10 to 100 HP., the standard Hicks compound engine will still be sold. Among recent orders for the latter engines were orders from Arbuckle, W. Va.; Ogdensburg, N. Y., and Pine Ridge, Ark. The company, which has formerly confined itself to milling interests, is now prepared to furnish estimates for gas and gasoline engines for all purposes.

THE VULCAN IRON WORKS CO., Toledo, O., Mr. Alex. Backus, Pres. and Treas., advises our representative that business for the company has been improving steadily for the past 60 to 90 days, and that a number of good orders have been booked for spring delivery. Among deliveries recently made are: One Little Giant steam shovel to Baltimore, Md., capacity 150 yds. per hour, and one Little Giant shovel, railroad type, for use on the Erie Canal work. The company is just completing a Giant C. steam shovel, 200 yds. per hour capacity, to go to Augusta, Ga., and has an order for a number of 4-yd. dredge dippers for use in the Duluth harbor work. Mr. Backus states that the company is prepared to furnish plans and estimates on all sizes of direct connected pumps and engines for mining purposes, and have recently shipped one of these outfits to Colorado.

THE WIRE, WIRE NAIL AND STEEL ROD combination, says press reports, has advanced to the point where the concerns interested have decided to go in, and all that remains to be done is to reach an agreement on the value of the different mills. The Cleveland concerns interested are said to be the American Wire Works, the H. P. Nail Co., the Consolidated Wire & Steel Co., the Cleveland Rolling Mill Co. and probably the Johnson Co. The Pittsburg interests are the Parkin Works, the Beaver Falls Works, the Pittsburg Wire Co. and the Oliver-Snyder Co., which includes also the Oliver interests in the Carnegie acquisitions. Besides rod and wire mills, the new combination includes steel mills, blast furnaces and iron ore mines. It is the plan that all the interests involved lose their identity and go out of business, and that there be simply the one great company. The further statement is made by Cleveland iron men who are interested that the control of the concern will rest in the hands of J. Pierpont Morgan and his associates.——The Oliver Wire Co. has given notice that a meeting of the stockholders will be held in Pittsburg Jan. 4 to consider the sale of the real estate and other property of the company.

THE UNION IRON WORKS, San Francisco, Cal.—A correspondent, who recently made the tour of this large establishment by courtesy of and in company with the well-known Manager and Chief Engineer, Mr. George W. Dickie, writes: As many of your readers will be interested in knowing how these works have been extended, I send a few notes that will be of interest. The working force on Nov. 26 was at just 3,000 men. The pay-roll amounts to $150,000 a month. The machine tools purchased or made and placed during 18 months past are valued at $600,000. They have been selected all over this country and some of them from abroad. Our rounds wound up in the store rooms, and here one may find a stock not equalled in the world: These works are 3,000 miles from the markets where supplies can be drawn as needed, hence there is the choice of making everything possible, or keeping a large stock on hand. Nearly everything is made. Electrical machinery and nearly all equipment goods are prepared. Cocks, valves, screws, indeed everything of metal, from a few ounces up, is prepared on the ground. The stores of both the purchased and manufactured goods on hand are a wonder. We passed a pile of small boxes. It was a car load of candles. We turned into a small room about 10 ft. square, shelved all round and filled with brass flanges, faced and bored ready for use. Mr. Dickie remarked that the company ran out of brass flanges recently and had just made up a stock of 50 tons of the smaller sizes, worth about $25,000. The flanges were for soldering mainly and are nearly pure copper.

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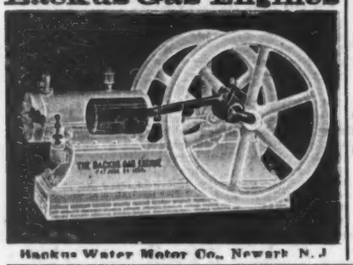

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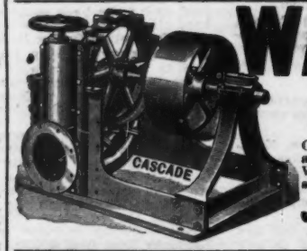

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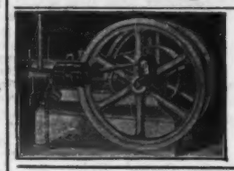

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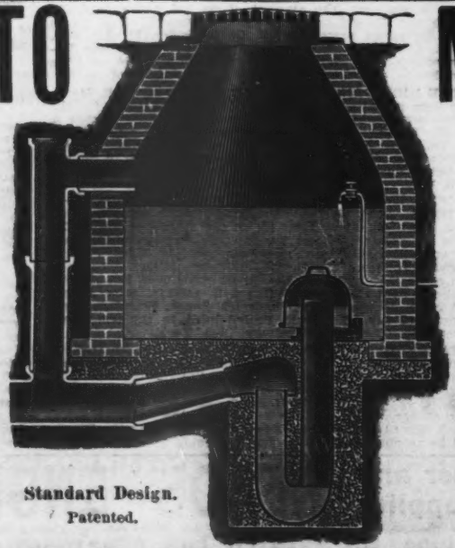

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